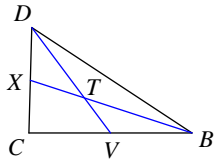


Assignment

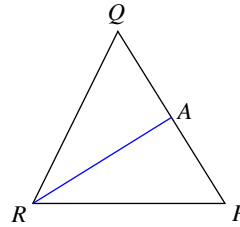
Each figure shows a triangle with one or more of its medians.

- 1) Find  $x$  if  $DT = x - 4$  and  $DV = \frac{x + 2}{2}$



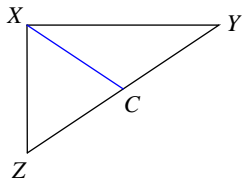
- A) 4      B) 7  
C) 2      D) 12

- 2) Find  $x$  if  $AQ = 2x - 11$  and  $AP = x - 3$



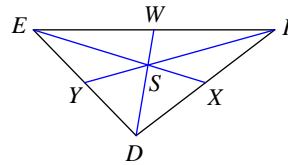
- A) 2.5      B) 8  
C) 2.4      D) 12

- 3) Find  $x$  if  $CY = \frac{1}{2}x - 1$  and  $CZ = \frac{2x - 9}{2}$



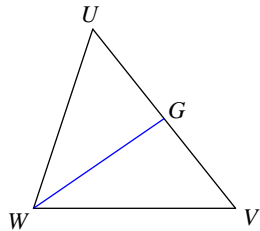
- A) 7      B) 10  
C) 3      D) 11

- 4) Find  $x$  if  $FS = x$  and  $FY = x + 3$



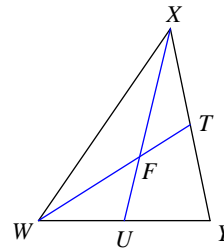
- A) 6      B) 2  
C) 10      D) 7

- 5) Find  $x$  if  $VU = x - 4$  and  $GU = 2x - 11$



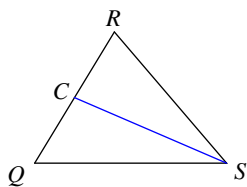
- A) 12      B) 6  
C) 11      D) 2

- 6) Find  $x$  if  $WF = 4 + x$  and  $FT = 2x - 10$



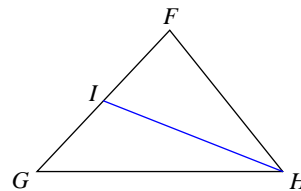
- A) 6      B) 6.3  
C) 11      D) 8

- 7) Find  $x$  if  $CQ = \frac{11}{2}x$  and  $CR = -\frac{1}{2} + 6x$



- A) 3      B) 1  
C) 6      D) 4

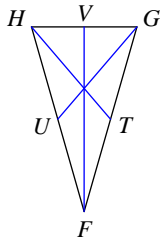
- 8) Find  $x$  if  $FG = x$  and  $IG = x - 1$



- A) 3      B) 2  
C) 3.5      D) 12

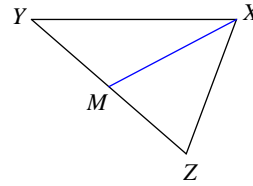


9) Find  $x$  if  $HF = \frac{11x+2}{5}$  and  $UF = \frac{6}{5}x - \frac{1}{5}$



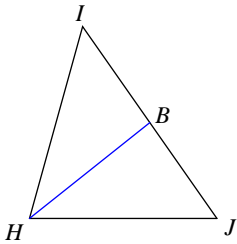
- A) 6      B) 4  
C) 9      D) 7

10) Find  $x$  if  $MZ = x - 2$  and  $MY = 2x - 7$



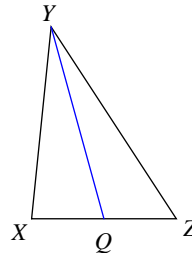
- A) 9      B) 1.7  
C) 11     D) 5

11) Find  $x$  if  $JI = x - 5$  and  $BI = x - 8$



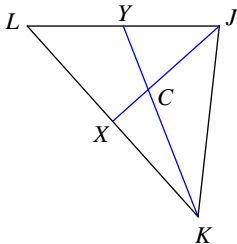
- A) 11     B) 9  
C) 7      D) 5

12) Find  $x$  if  $QZ = 2x - 4$  and  $QX = x - 1$



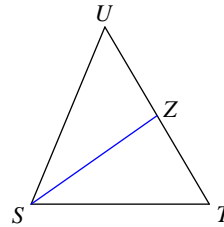
- A) 4      B) 10  
C) 3      D) 6

13) Find  $x$  if  $KY = 12x$  and  $CY = 5x - 2$



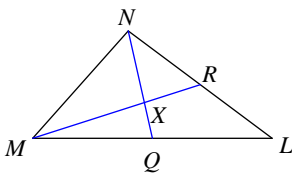
- A) 9      B) 2  
C) 10.8   D) 7

14) Find  $x$  if  $ZU = 2x - 12$  and  $ZT = x - 3$



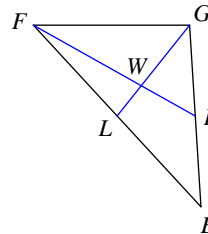
- A) 9.6     B) 6  
C) 7      D) 9

15) Find  $x$  if  $MR = \frac{5x-2}{5}$  and  $XR = \frac{2x-2}{5}$



- A) 6      B) 4  
C) 10     D) 8

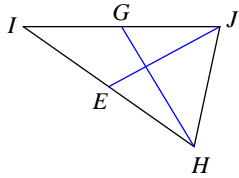
16) Find  $x$  if  $FK = 5x - 1$  and  $WK = x + 1$



- A) 12     B) 5  
C) 2      D) 6

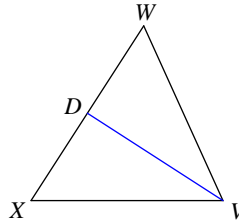


17) Find  $x$  if  $JI = x + 6$  and  $GI = x - 1$



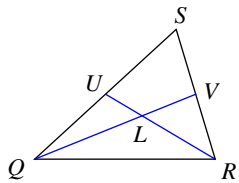
- A) 6            B) 10  
C) 6.7        D) 8

18) Find  $x$  if  $DX = x + 4$  and  $DW = 2x - 4$



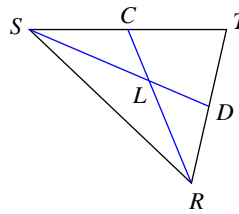
- A) 12            B) 7.4  
C) 8             D) 7.8

19) Find  $x$  if  $QV = \frac{6x - 3}{2}$  and  $LV = \frac{4 + x}{2}$



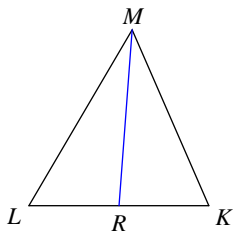
- A) 5            B) 3  
C) 8            D) 4

20) Find  $x$  if  $RL = \frac{1}{5}x - \frac{8}{5}$  and  $RC = \frac{x - 6}{5}$



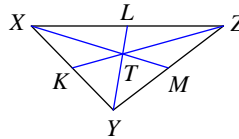
- A) 10            B) 9  
C) 6             D) 12

21) Find  $x$  if  $LK = \frac{1 + 9x}{5}$  and  $RK = \frac{3x + 5}{5}$



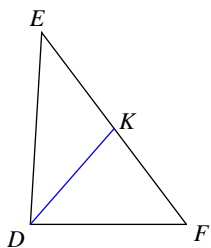
- A) 5            B) 1  
C) 3            D) 4.2

22) Find  $x$  if  $ZX = 3x - 2$  and  $LX = 2x - 5$



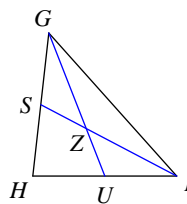
- A) 4            B) 5  
C) 8            D) 2

23) Find  $x$  if  $FE = x + 3$  and  $KE = x - 3$



- A) 5            B) 9  
C) 1            D) 4

24) Find  $x$  if  $GZ = x - 3$  and  $ZU = 2x - 9$



- A) 5            B) 8  
C) 6            D) 4.8



## Answers to Assignment (ID: 1)

1) B  
5) B  
9) B  
13) B  
17) D  
21) C

2) B  
6) D  
10) D  
14) D  
18) C  
22) C

3) A  
7) B  
11) A  
15) B  
19) A  
23) B

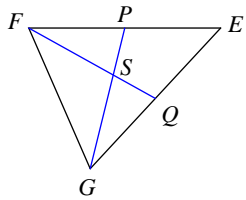
4) A  
8) B  
12) C  
16) C  
20) D  
24) A



Assignment

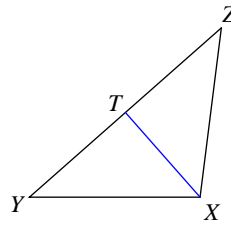
Each figure shows a triangle with one or more of its medians.

1) Find  $x$  if  $EF = x$  and  $PF = x - 3$



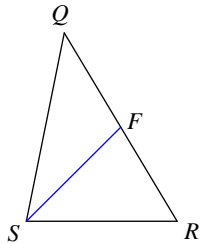
- A) 1            B) 6
- C) 10          D) 5

2) Find  $x$  if  $ZY = 7x - 1$  and  $TY = 3x$



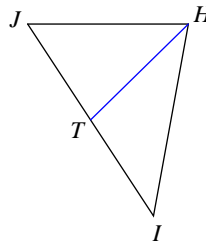
- A) 10            B) 6
- C) 1             D) 7

3) Find  $x$  if  $FQ = x + 4$  and  $FR = 2x - 4$



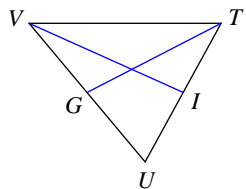
- A) 6.6            B) 8
- C) 2              D) 11

4) Find  $x$  if  $JI = 2x - 5$  and  $TI = \frac{x + 1}{2}$



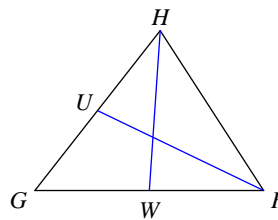
- A) 6              B) 8
- C) 5              D) 4

5) Find  $x$  if  $UT = 2x + 4$  and  $IT = 2x - 1$



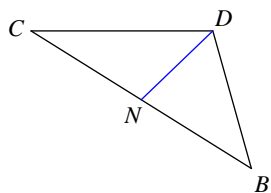
- A) 5              B) 9
- C) 3              D) 4

6) Find  $x$  if  $HG = x - 4$  and  $UG = x - 7$



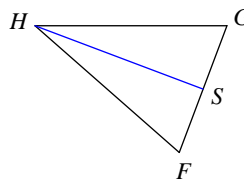
- A) 12             B) 9
- C) 10             D) 6

7) Find  $x$  if  $NB = -\frac{3}{2} + \frac{1}{2}x$  and  $NC = x - \frac{7}{2}$



- A) 4.8            B) 9
- C) 4              D) 11

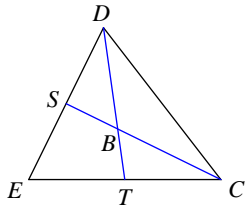
8) Find  $x$  if  $SG = 2x - 12$  and  $SF = x - 3$



- A) 8              B) 7
- C) 4              D) 9

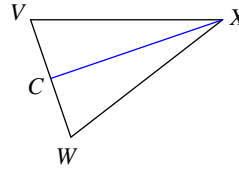


9) Find  $x$  if  $DT = \frac{x+5}{2}$  and  $BT = -\frac{5}{2} + x$



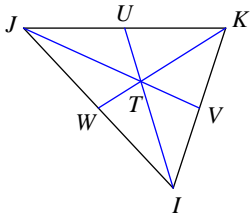
- A) 9      B) 4  
C) 3      D) 12

10) Find  $x$  if  $CW = 2x - 5$  and  $CV = x - 2$



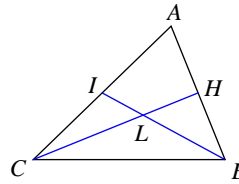
- A) 9      B) 3  
C) 5      D) 4

11) Find  $x$  if  $IT = x - 2$  and  $IU = 2x - 8$



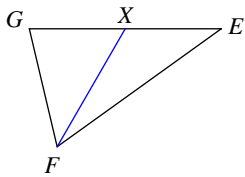
- A) 2.5      B) 10  
C) 6.5      D) 9

12) Find  $x$  if  $BL = 3 + 2x$  and  $BI = \frac{-3 + 9x}{2}$



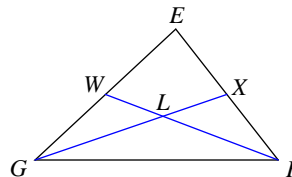
- A) 3      B) 4  
C) 3.8      D) 6

13) Find  $x$  if  $EG = x - 1$  and  $XG = 2x - 5$



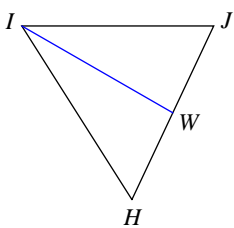
- A) 8      B) 3  
C) 9      D) 11

14) Find  $x$  if  $FL = 5x - 3$  and  $LW = x + 3$



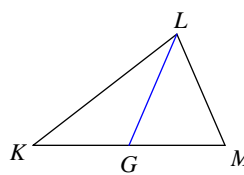
- A) 1      B) 7  
C) 8      D) 3

15) Find  $x$  if  $WJ = \frac{2}{5}x + \frac{2}{5}$  and  $WH = \frac{3x - 10}{5}$



- A) 12      B) 9  
C) 1      D) 6

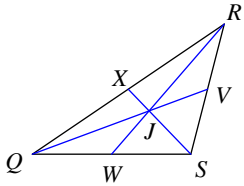
16) Find  $x$  if  $GM = \frac{2x - 9}{2}$  and  $GK = \frac{-1 + x}{2}$



- A) 6      B) 1.1  
C) 8      D) 1

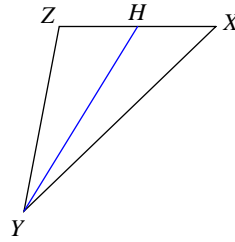


17) Find  $x$  if  $QV = 4 + 2x$  and  $JV = 2x - 8$



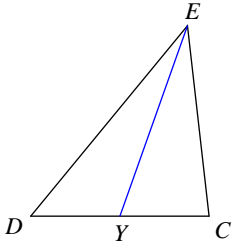
- A) 10.1      B) 6  
C) 7          D) 9

18) Find  $x$  if  $HZ = 2x - 3$  and  $HX = x + 1$



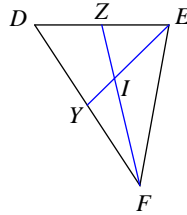
- A) 3          B) 9  
C) 4          D) 8.1

19) Find  $x$  if  $YC = 4x - 1$  and  $YD = 3x + 1$



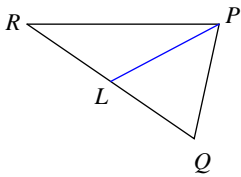
- A) 4          B) 1  
C) 9          D) 2

20) Find  $x$  if  $EI = -1 + x$  and  $IY = x - 3$



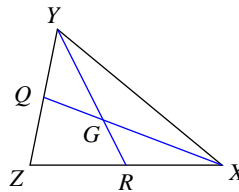
- A) 5          B) 7  
C) 11        D) 12

21) Find  $x$  if  $RQ = x - 2$  and  $LQ = x - 6$



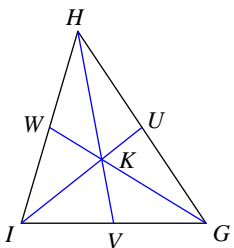
- A) 6          B) 8  
C) 12        D) 10

22) Find  $x$  if  $XQ = 10x - 1$  and  $GQ = 2x + 1$



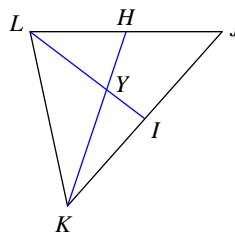
- A) 1          B) 4  
C) 5          D) 9.4

23) Find  $x$  if  $HI = -2 + 2x$  and  $WI = 2x - 8$



- A) 4          B) 7  
C) 10        D) 9

24) Find  $x$  if  $LI = 2x - 3$  and  $YI = -9 + 2x$



- A) 1.2        B) 6  
C) 4          D) 2



## Answers to Assignment (ID: 2)

- 1) B
- 5) C
- 9) B
- 13) B
- 17) C
- 21) D

- 2) C
- 6) C
- 10) B
- 14) D
- 18) C
- 22) A

- 3) B
- 7) C
- 11) B
- 15) A
- 19) D
- 23) B

- 4) A
- 8) D
- 12) B
- 16) C
- 20) A
- 24) B

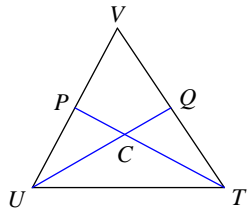




Assignment

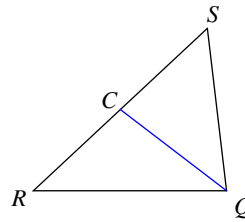
Each figure shows a triangle with one or more of its medians.

1) Find  $x$  if  $UQ = x + 7$  and  $CQ = 2x - 6$



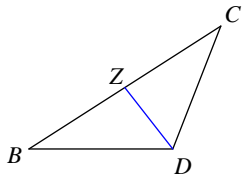
- A) 3
- B) 10
- C) 5
- D) 11

2) Find  $x$  if  $SR = 4x$  and  $CR = 3x - 6$



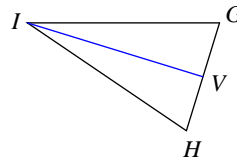
- A) 8
- B) 1
- C) 2
- D) 6

3) Find  $x$  if  $ZB = x + 4$  and  $ZC = 2x - 2$



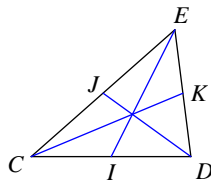
- A) 6
- B) 9
- C) 7
- D) 8

4) Find  $x$  if  $HG = x + 8$  and  $VG = x$



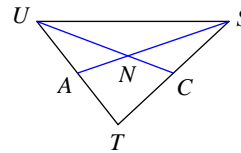
- A) 9
- B) 8
- C) 4
- D) 7

5) Find  $x$  if  $DE = x - 4$  and  $KE = x - 5$



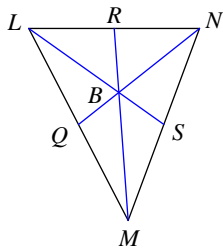
- A) 6
- B) 9
- C) 11.9
- D) 2.9

6) Find  $x$  if  $SA = 3x$  and  $NA = 2x - 8$



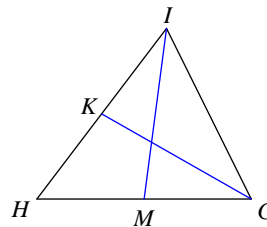
- A) 4
- B) 9
- C) 8
- D) 6

7) Find  $x$  if  $MB = x - 1$  and  $BR = 2x - 11$



- A) 3
- B) 7
- C) 6
- D) 9

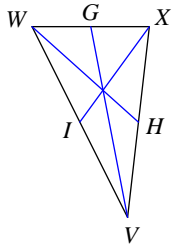
8) Find  $x$  if  $KH = x + 3$  and  $KI = 3x - 1$



- A) 6
- B) 12
- C) 2
- D) 10.5

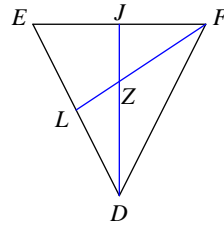


9) Find  $x$  if  $VX = 2x + 6$  and  $HX = 2x - 2$



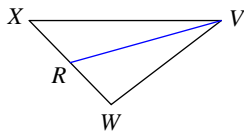
- A) 12      B) 7  
C) 4        D) 5

10) Find  $x$  if  $DZ = 3x - 9$  and  $DJ = 3x$



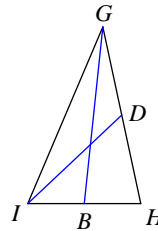
- A) 12      B) 9  
C) 2        D) 3

11) Find  $x$  if  $RW = \frac{5x - 4}{5}$  and  $RX = \frac{4}{5}x + \frac{6}{5}$



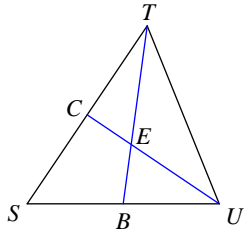
- A) 2        B) 9  
C) 10      D) 5.3

12) Find  $x$  if  $DG = 2x - 5$  and  $DH = x - 2$



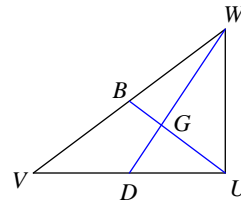
- A) 5        B) 3  
C) 2        D) 12

13) Find  $x$  if  $BU = \frac{9x - 4}{10}$  and  $BS = \frac{4}{5}x + \frac{3}{10}$



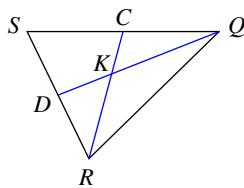
- A) 5.1      B) 8  
C) 7        D) 11

14) Find  $x$  if  $UB = 2x - 1$  and  $GB = 2x - 3$



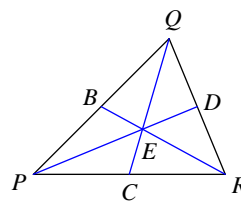
- A) 2        B) 8  
C) 1.6     D) 9

15) Find  $x$  if  $SR = x - 3$  and  $DR = 2x - 9$



- A) 5        B) 9  
C) 10      D) 11

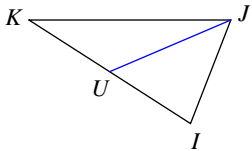
16) Find  $x$  if  $QE = 2x - \frac{3}{5}$  and  $EC = \frac{9x + 5}{10}$



- A) 10      B) 1  
C) 8        D) 7

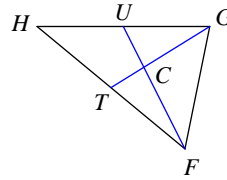


17) Find  $x$  if  $KI = x - \frac{3}{5}$  and  $UI = \frac{3x - 5}{5}$



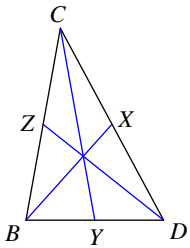
- A) 3      B) 1  
C) 8      D) 7

18) Find  $x$  if  $GT = 5x + 1$  and  $CT = 3x - 1$



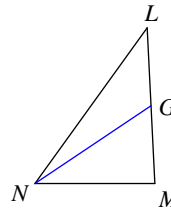
- A) 2.4      B) 12  
C) 2      D) 1

19) Find  $x$  if  $ZB = 2x + 4$  and  $ZC = 3x$



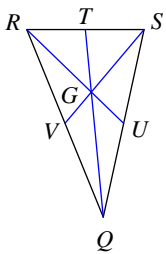
- A) 4.9      B) 4  
C) 12      D) 9

20) Find  $x$  if  $ML = \frac{4x + 7}{5}$  and  $GL = \frac{5x - 3}{10}$



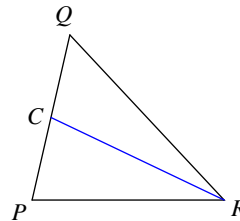
- A) 11      B) 10  
C) 11.8      D) 2

21) Find  $x$  if  $QG = x + 4$  and  $QT = \frac{5x + 2}{2}$



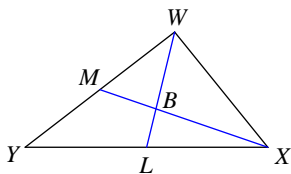
- A) 9      B) 5  
C) 12      D) 9.5

22) Find  $x$  if  $CP = 1 + 5x$  and  $CQ = 6x - 1$



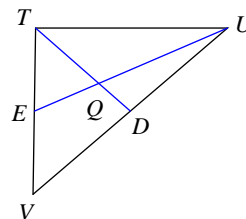
- A) 1      B) 3  
C) 12      D) 2

23) Find  $x$  if  $WL = 5x + 1$  and  $BL = 2x - 1$



- A) 4      B) 10.6  
C) 2.3      D) 8.8

24) Find  $x$  if  $UE = 1 + 10x$  and  $QE = 5x - 5$



- A) 7      B) 3.2  
C) 6      D) 11.5



## Answers to Assignment (ID: 3)

- 1) C
- 5) A
- 9) D
- 13) C
- 17) D
- 21) B

- 2) D
- 6) C
- 10) B
- 14) A
- 18) D
- 22) D

- 3) A
- 7) B
- 11) C
- 15) A
- 19) B
- 23) A

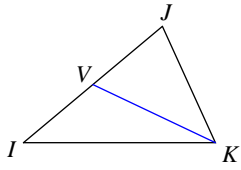
- 4) B
- 8) C
- 12) B
- 16) C
- 20) B
- 24) B



Assignment

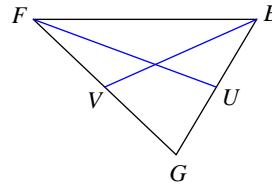
Each figure shows a triangle with one or more of its medians.

1) Find  $x$  if  $JI = 6x - 2$  and  $VI = x + 5$



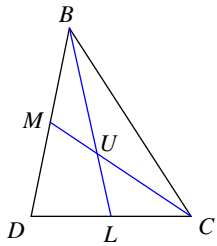
- A) 11.7
- B) 3
- C) 6
- D) 10

2) Find  $x$  if  $GE = \frac{3x - 12}{5}$  and  $UE = \frac{-12 + 2x}{5}$



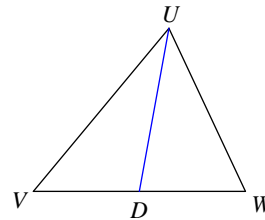
- A) 2
- B) 12
- C) 9
- D) 3

3) Find  $x$  if  $CU = x + 8$  and  $CM = 2x + 9$



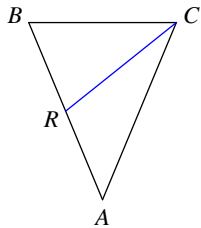
- A) 5
- B) 3
- C) 6
- D) 7

4) Find  $x$  if  $VW = x - 3$  and  $DW = x - 4$



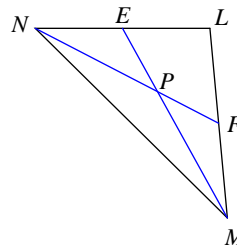
- A) 1
- B) 5
- C) 7
- D) 10

5) Find  $x$  if  $RA = 2x - 10$  and  $RB = x - 4$



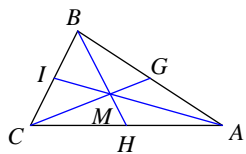
- A) 9
- B) 7
- C) 6
- D) 1

6) Find  $x$  if  $MP = x + 11$  and  $ME = 2x + 11$



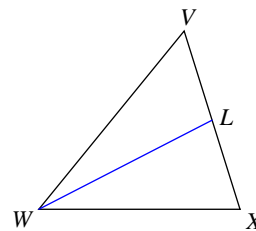
- A) 11
- B) 5
- C) 10
- D) 4

7) Find  $x$  if  $CG = x$  and  $MG = x - 4$



- A) 8.1
- B) 7.4
- C) 7
- D) 6

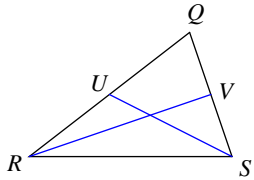
8) Find  $x$  if  $XV = x - 4$  and  $LV = x - 5$



- A) 6
- B) 9
- C) 5
- D) 1

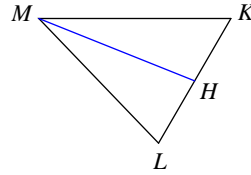


9) Find  $x$  if  $QR = x - 2$  and  $UR = x - 5$



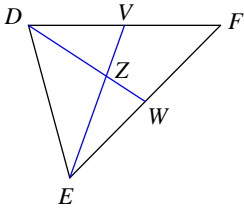
- A) 1      B) 2.2  
C) 8      D) 10

10) Find  $x$  if  $HK = x + 7$  and  $HL = 3x - 3$



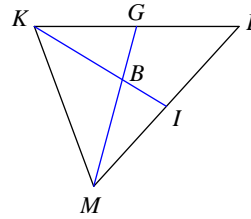
- A) 9      B) 5  
C) 7      D) 10

11) Find  $x$  if  $DZ = 2x - 10$  and  $ZW = 2x - 11$



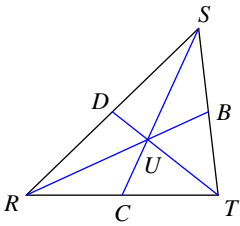
- A) 10      B) 5  
C) 6      D) 2

12) Find  $x$  if  $MB = x - 1$  and  $MG = x$



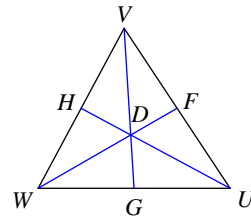
- A) 12      B) 11  
C) 3      D) 5.6

13) Find  $x$  if  $TU = 6x - 3$  and  $UD = \frac{4x + 5}{2}$



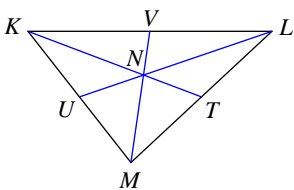
- A) 4      B) 2  
C) 12      D) 8

14) Find  $x$  if  $VD = \frac{10x - 1}{5}$  and  $DG = \frac{9x + 10}{10}$



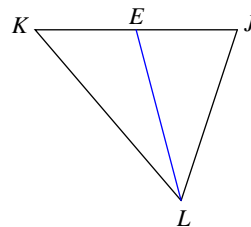
- A) 5.6      B) 11  
C) 6      D) 7

15) Find  $x$  if  $MN = x - 1$  and  $MV = \frac{2x + 1}{2}$



- A) 5      B) 11  
C) 4      D) 11.2

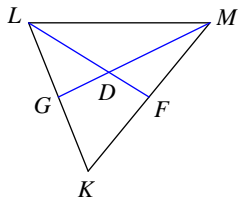
16) Find  $x$  if  $EK = x + 3$  and  $EJ = 3x - 3$



- A) 6      B) 9  
C) 3      D) 8.2

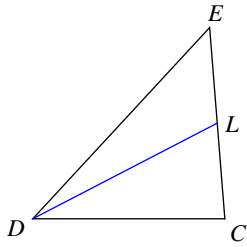


17) Find  $x$  if  $MG = \frac{3+3x}{2}$  and  $DG = -\frac{1}{2} + x$



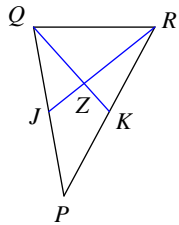
- A) 2      B) 10  
C) 11     D) 4

19) Find  $x$  if  $CE = 4x$  and  $LE = x + 1$



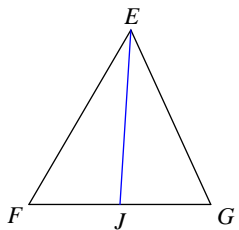
- A) 1      B) 11.2  
C) 8      D) 4

21) Find  $x$  if  $RJ = 3x - 3$  and  $ZJ = -6 + 2x$



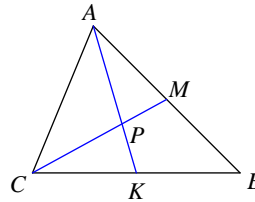
- A) 5.5     B) 5  
C) 12      D) 6

23) Find  $x$  if  $FG = 2x + 5$  and  $JG = 2x - 7$



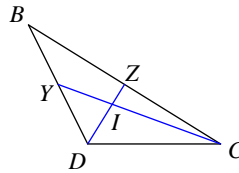
- A) 9.5     B) 8  
C) 10      D) 5.2

18) Find  $x$  if  $AP = x - 3$  and  $PK = x - 7$



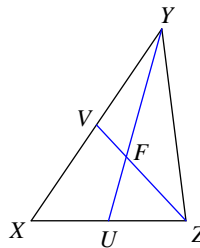
- A) 4      B) 11  
C) 2.4    D) 10

20) Find  $x$  if  $DI = 2x - 9$  and  $IZ = \frac{x}{2}$



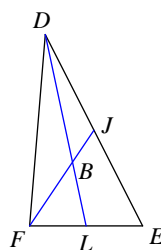
- A) 4      B) 6  
C) 9      D) 8

22) Find  $x$  if  $YF = 3x + 2$  and  $YU = 6x$



- A) 9      B) 2  
C) 8      D) 11

24) Find  $x$  if  $FJ = \frac{2x+3}{5}$  and  $BJ = \frac{x-2}{5}$



- A) 3.3     B) 9  
C) 4      D) 6



## Answers to Assignment (ID: 4)

- 1) B
- 5) C
- 9) C
- 13) A
- 17) A
- 21) B

- 2) B
- 6) A
- 10) B
- 14) B
- 18) B
- 22) B

- 3) C
- 7) D
- 11) C
- 15) C
- 19) A
- 23) A

- 4) B
- 8) A
- 12) C
- 16) C
- 20) C
- 24) B

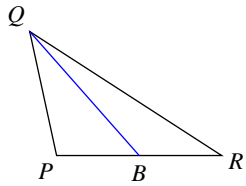




Assignment

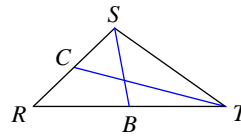
Each figure shows a triangle with one or more of its medians.

1) Find  $x$  if  $PR = 8x$  and  $BR = 3x + 3$



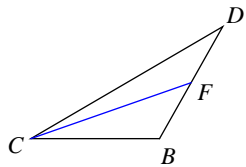
- A) 3
- B) 11.5
- C) 2
- D) 11

2) Find  $x$  if  $RT = 3x - 4$  and  $BT = x$



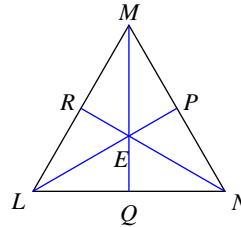
- A) 4
- B) 2
- C) 1
- D) 10

3) Find  $x$  if  $FD = 2x - 4$  and  $FB = x + 1$



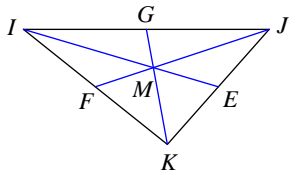
- A) 11
- B) 5
- C) 8.3
- D) 10.1

4) Find  $x$  if  $ME = \frac{7}{5}x - \frac{3}{5}$  and  $EQ = \frac{3}{5}x + \frac{1}{2}$



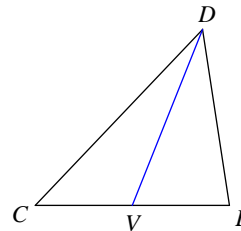
- A) 8
- B) 4
- C) 11
- D) 1.2

5) Find  $x$  if  $JM = 5x - 4$  and  $JF = 5x - 3$



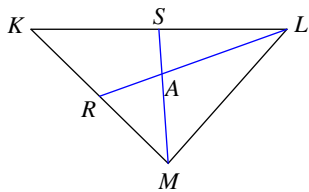
- A) 9
- B) 6
- C) 8
- D) 1.2

6) Find  $x$  if  $CB = 2x - 6$  and  $VB = 2x - 7$



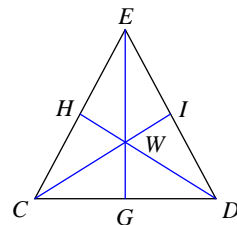
- A) 6
- B) 3
- C) 12
- D) 4

7) Find  $x$  if  $LR = 4x + 3$  and  $AR = 2x - 3$



- A) 6
- B) 5
- C) 11
- D) 2

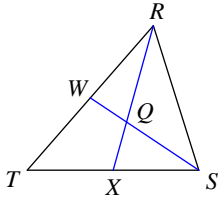
8) Find  $x$  if  $EW = x + 2$  and  $EG = x + 5$



- A) 4
- B) 11
- C) 12
- D) 2

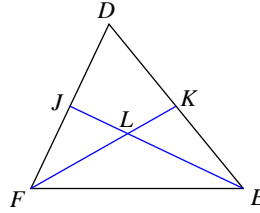


9) Find  $x$  if  $RQ = x - 7$  and  $RX = \frac{5x - 2}{10}$



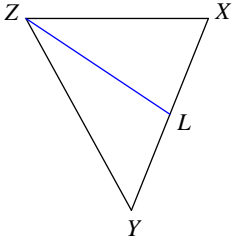
- A) 6            B) 7  
C) 10.3        D) 9

10) Find  $x$  if  $EJ = 2x - 8$  and  $LJ = x - 5$



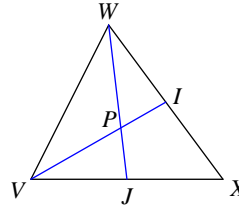
- A) 1            B) 8  
C) 11          D) 7

11) Find  $x$  if  $YX = x - 1$  and  $LX = 2x - 11$



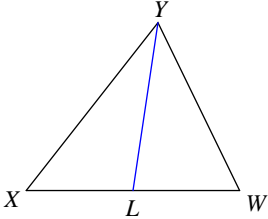
- A) 7            B) 5  
C) 10          D) 5.4

12) Find  $x$  if  $IW = 2 + x$  and  $IX = 2x - 8$



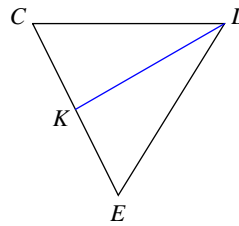
- A) 11.8        B) 10  
C) 4            D) 2

13) Find  $x$  if  $XW = 2x - 9$  and  $LW = \frac{x - 2}{2}$



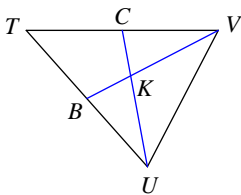
- A) 5.7        B) 7  
C) 6          D) 9.7

14) Find  $x$  if  $KE = 2x - 11$  and  $KC = x - 4$



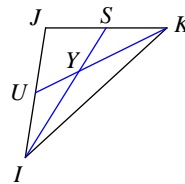
- A) 7            B) 2  
C) 10.2       D) 3

15) Find  $x$  if  $VK = x - 1$  and  $VB = 2x - 3$



- A) 3            B) 4.8  
C) 2            D) 11

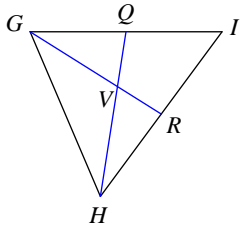
16) Find  $x$  if  $IY = 1 + x$  and  $YS = \frac{2x - 3}{2}$



- A) 8            B) 4  
C) 3            D) 10

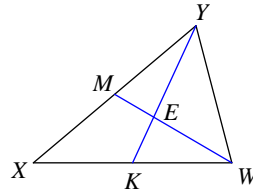


17) Find  $x$  if  $HQ = 4x$  and  $VQ = 2x - 2$



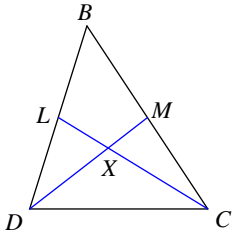
- A) 3            B) 7.9  
C) 10.6        D) 7.1

18) Find  $x$  if  $YE = x$  and  $EK = x - 6$



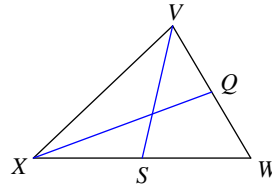
- A) 5            B) 4.1  
C) 2            D) 12

19) Find  $x$  if  $CX = 3x + 4$  and  $CL = 5x + 4$



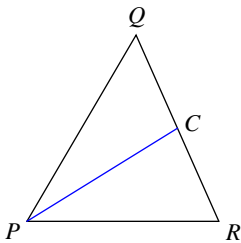
- A) 4            B) 7  
C) 8            D) 1

20) Find  $x$  if  $SW = -2 + 2x$  and  $SX = x + 2$



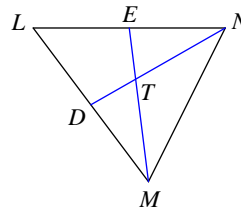
- A) 4            B) 2  
C) 9            D) 10

21) Find  $x$  if  $RQ = x + 2$  and  $CQ = \frac{2x - 5}{2}$



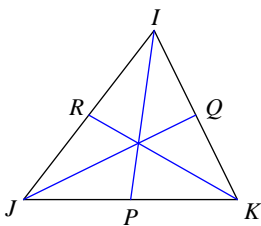
- A) 1            B) 11.8  
C) 7            D) 8

22) Find  $x$  if  $MT = 6x - 2$  and  $TE = x + 5$



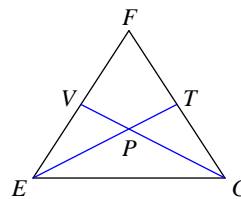
- A) 6            B) 8  
C) 11          D) 3

23) Find  $x$  if  $JK = x + 6$  and  $PK = x - 3$



- A) 2.1          B) 7  
C) 9            D) 12

24) Find  $x$  if  $FE = \frac{7x - 7}{5}$  and  $VE = \frac{4x - 8}{5}$



- A) 9            B) 7  
C) 1.7          D) 1



## Answers to Assignment (ID: 5)

- 1) A
- 5) D
- 9) C
- 13) B
- 17) A
- 21) C

- 2) A
- 6) D
- 10) D
- 14) A
- 18) D
- 22) D

- 3) B
- 7) A
- 11) A
- 15) A
- 19) A
- 23) D

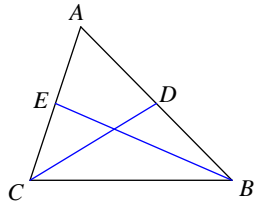
- 4) A
- 8) A
- 12) B
- 16) B
- 20) A
- 24) A



Assignment

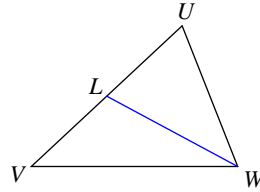
Each figure shows a triangle with one or more of its medians.

1) Find  $x$  if  $BA = 2x + 6$  and  $DA = 2x - 3$



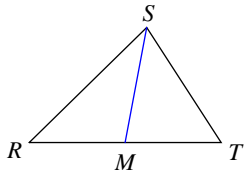
- A) 7      B) 8
- C) 6      D) 9

2) Find  $x$  if  $LV = \frac{5x + 2}{10}$  and  $LU = x - \frac{7}{10}$



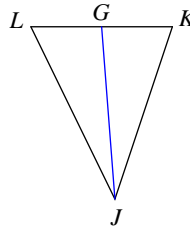
- A) 8      B) 7.4
- C) 1.8      D) 1

3) Find  $x$  if  $RT = 6x - 1$  and  $MT = \frac{5x}{2}$



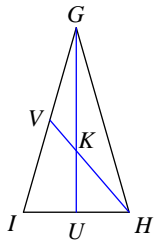
- A) 11      B) 10
- C) 1      D) 6

4) Find  $x$  if  $GL = x - 2$  and  $GK = 2x - 9$



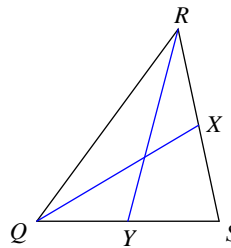
- A) 9      B) 7
- C) 1.8      D) 3

5) Find  $x$  if  $GK = 6 + 2x$  and  $GU = 5x - 1$



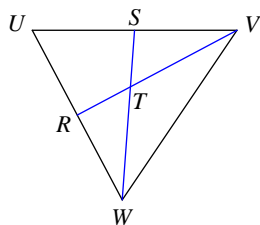
- A) 7.1      B) 11
- C) 5      D) 8.7

6) Find  $x$  if  $YS = \frac{x - 1}{2}$  and  $YQ = \frac{2x - 3}{2}$



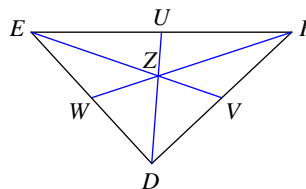
- A) 8      B) 2
- C) 12      D) 4

7) Find  $x$  if  $VT = \frac{11x}{5}$  and  $TR = x + \frac{3}{5}$



- A) 6      B) 5

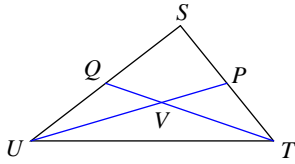
8) Find  $x$  if  $FZ = x$  and  $ZW = \frac{2x - 5}{2}$



- A) 5      B) 6
- C) 3.2      D) 5.2

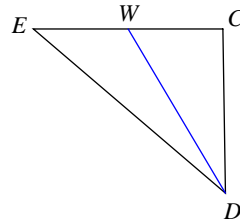


9) Find  $x$  if  $UV = 5x - 1$  and  $VP = 5x - 10$



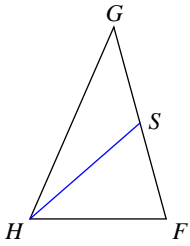
- A) 7            B) 3  
C) 3.8        D) 2

10) Find  $x$  if  $WE = \frac{x}{2}$  and  $WC = -\frac{11}{2} + x$



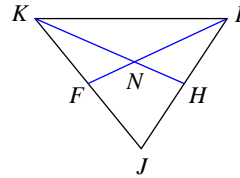
- A) 5.1        B) 11  
C) 9            D) 8

11) Find  $x$  if  $SG = 6x$  and  $SF = 5x + 2$



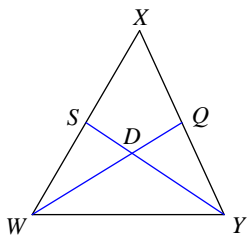
- A) 9            B) 4  
C) 2            D) 12

12) Find  $x$  if  $KN = 7x - 4$  and  $KH = 8x + 4$



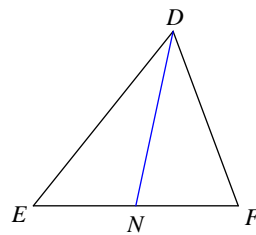
- A) 4            B) 5  
C) 11         D) 1

13) Find  $x$  if  $YD = x - 2$  and  $DS = x - 5$



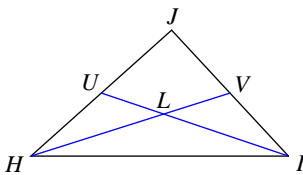
- A) 9            B) 6  
C) 8            D) 10

14) Find  $x$  if  $NF = 10x - 12$  and  $NE = 5x - 3$



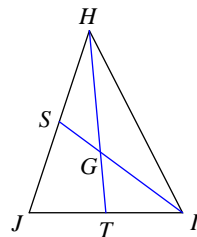
- A) 1.8        B) 11  
C) 2            D) 6.3

15) Find  $x$  if  $IL = -12 + 2x$  and  $IU = 2x - 11$



- A) 10           B) 2  
C) 4            D) 7

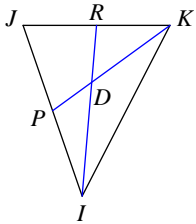
16) Find  $x$  if  $HT = 2x - 1$  and  $GT = x - 2$



- A) 11         B) 12  
C) 4            D) 5

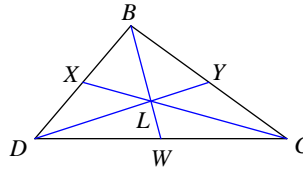


17) Find  $x$  if  $IR = 8x + 2$  and  $DR = 2x + 2$



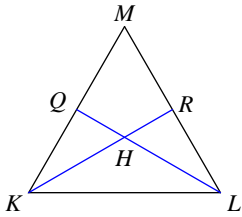
- A) 10      B) 6  
C) 3        D) 2

18) Find  $x$  if  $DY = 2x$  and  $LY = 2x - 8$



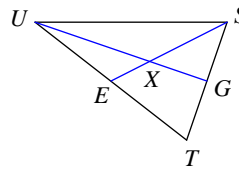
- A) 8            B) 6  
C) 6.1        D) 4

19) Find  $x$  if  $KH = x$  and  $KR = 2x - 4$



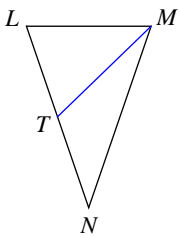
- A) 10.7      B) 8  
C) 11        D) 10.8

20) Find  $x$  if  $SX = \frac{6}{5}x + \frac{3}{5}$  and  $SE = 2x - \frac{7}{10}$



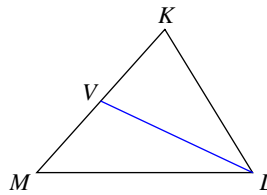
- A) 3            B) 6  
C) 8            D) 7.4

21) Find  $x$  if  $LN = 2x - 2$  and  $TN = 2x - 5$



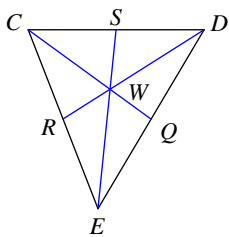
- A) 9            B) 1  
C) 7            D) 4

22) Find  $x$  if  $VM = x + \frac{7}{10}$  and  $VK = \frac{11x + 2}{10}$



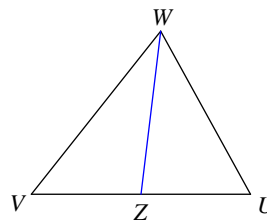
- A) 1.4        B) 12  
C) 5            D) 7

23) Find  $x$  if  $EW = x - 1$  and  $ES = x + \frac{3}{2}$



- A) 3.2        B) 4.6  
C) 6            D) 5.5

24) Find  $x$  if  $ZU = x + 1$  and  $ZV = 2x - 4$



- A) 10          B) 5  
C) 11.2       D) 5.7



## Answers to Assignment (ID: 6)

- 1) C
- 5) C
- 9) C
- 13) C
- 17) D
- 21) D

- 2) C
- 6) B
- 10) B
- 14) A
- 18) B
- 22) C

- 3) C
- 7) A
- 11) C
- 15) D
- 19) B
- 23) C

- 4) B
- 8) A
- 12) A
- 16) D
- 20) C
- 24) B

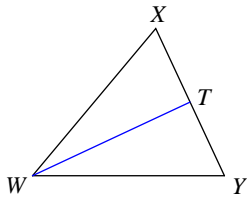




Assignment

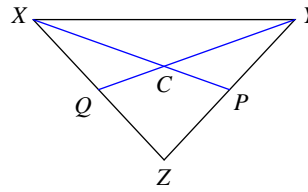
Each figure shows a triangle with one or more of its medians.

1) Find  $x$  if  $YX = 10 + x$  and  $TX = -1 + x$



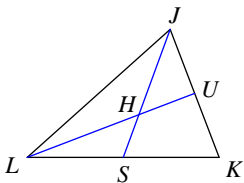
- A) 8
- B) 12
- C) 4
- D) 10.8

2) Find  $x$  if  $YC = x + 7$  and  $CQ = \frac{3x - 1}{2}$



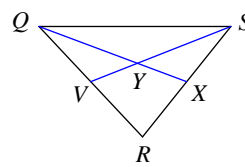
- A) 9.8
- B) 12
- C) 3
- D) 4

3) Find  $x$  if  $JH = 8x - 2$  and  $JS = 10x + 3$



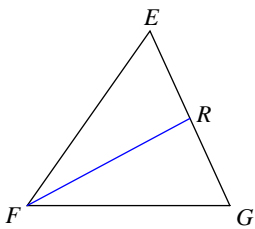
- A) 7
- B) 8.8
- C) 3
- D) 2

4) Find  $x$  if  $SY = 4x - 10$  and  $SV = 4x - 4$



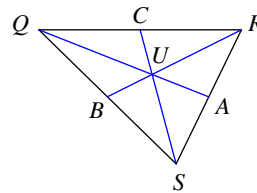
- A) 9
- B) 5.5
- C) 8
- D) 2

5) Find  $x$  if  $GE = x + 3$  and  $RE = x + \frac{1}{2}$



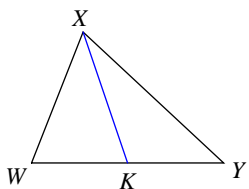
- A) 5
- B) 2
- C) 4
- D) 10

6) Find  $x$  if  $QU = 2x + 9$  and  $QA = 8x - 4$



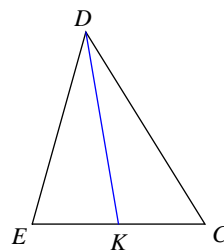
- A) 4
- B) 3.5
- C) 9.8
- D) 7

7) Find  $x$  if  $WY = 5x + 2$  and  $KY = 2x + 3$



- A) 6
- B) 8
- C) 4
- D) 7

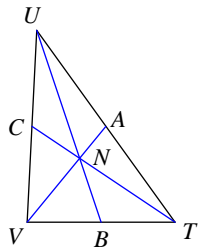
8) Find  $x$  if  $EC = x + 8$  and  $KC = 2x - 5$



- A) 8
- B) 3.2
- C) 6
- D) 1.6

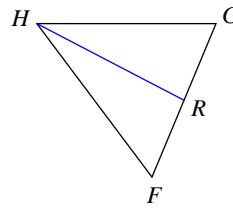


9) Find  $x$  if  $UB = \frac{1}{2}x + \frac{1}{2}$  and  $NB = \frac{1}{2}x - \frac{1}{2}$



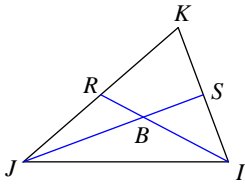
- A) 5      B) 11  
C) 2      D) 7

10) Find  $x$  if  $FG = 2x + 5$  and  $RG = \frac{3x + 2}{2}$



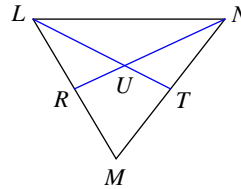
- A) 4.9      B) 2.4  
C) 2      D) 3

11) Find  $x$  if  $JB = x + 11$  and  $JS = 4x - 1$



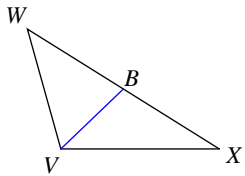
- A) 4      B) 7  
C) 2      D) 12

12) Find  $x$  if  $LU = 2x - 4$  and  $LT = x + 8$



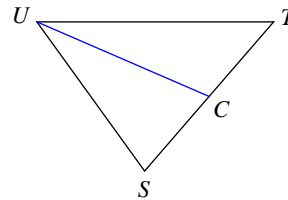
- A) 11      B) 1  
C) 7      D) 10

13) Find  $x$  if  $XW = x$  and  $BW = x - \frac{3}{2}$



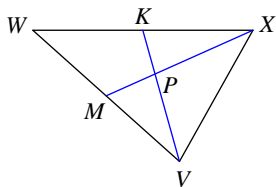
- A) 12      B) 1  
C) 9      D) 3

14) Find  $x$  if  $CT = \frac{2x + 1}{2}$  and  $CS = \frac{x + 4}{2}$



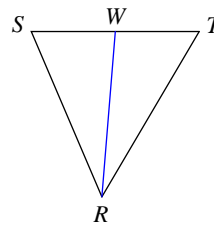
- A) 4      B) 6  
C) 3      D) 9

15) Find  $x$  if  $VK = 4x + 4$  and  $PK = 2x - 4$



- A) 8      B) 1  
C) 6      D) 12

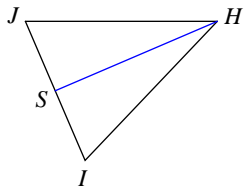
16) Find  $x$  if  $WS = x$  and  $WT = 2x - 3$



- A) 3      B) 8  
C) 12      D) 11

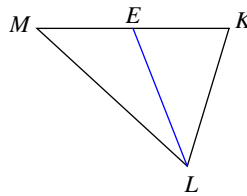


17) Find  $x$  if  $SJ = x + 3$  and  $SJ = 2x - 4$



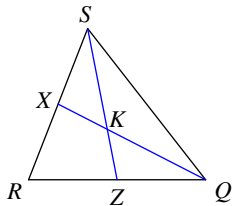
- A) 8      B) 6  
C) 12     D) 7

18) Find  $x$  if  $KM = 3x$  and  $EM = x + 1$



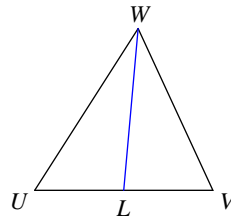
- A) 1.2      B) 2  
C) 7        D) 6

19) Find  $x$  if  $SK = 2x - 8$  and  $SZ = x + 2$



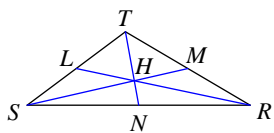
- A) 7        B) 5.1  
C) 3        D) 2

20) Find  $x$  if  $UV = x - 4$  and  $LV = x - 6$



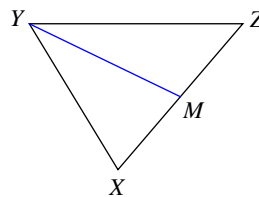
- A) 11        B) 9  
C) 8        D) 10.1

21) Find  $x$  if  $TN = x + 8$  and  $HN = x - 4$



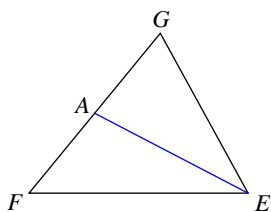
- A) 1.3      B) 10  
C) 7        D) 2

22) Find  $x$  if  $MZ = x$  and  $MX = 2x - 5$



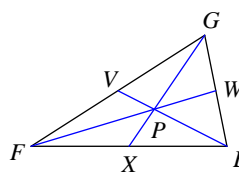
- A) 1        B) 9  
C) 5        D) 6

23) Find  $x$  if  $AF = \frac{x}{2}$  and  $AG = \frac{-7 + 2x}{2}$



- A) 8        B) 2  
C) 7        D) 6.1

24) Find  $x$  if  $EP = 12x - 2$  and  $PV = 4x + 3$



- A) 6        B) 2  
C) 4        D) 12



## Answers to Assignment (ID: 7)

1) B  
5) B  
9) C  
13) D  
17) D  
21) B

2) D  
6) B  
10) D  
14) C  
18) B  
22) C

3) C  
7) C  
11) B  
15) A  
19) A  
23) C

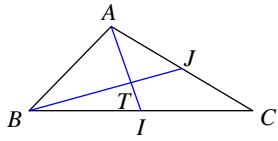
4) B  
8) C  
12) C  
16) A  
20) C  
24) B



Assignment

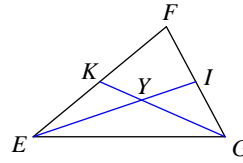
Each figure shows a triangle with one or more of its medians.

1) Find  $x$  if  $AI = x - 3$  and  $TI = 2x - 11$



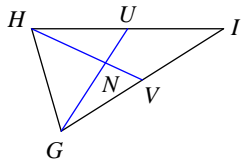
- A) 3
- B) 6
- C) 7
- D) 10.3

2) Find  $x$  if  $GY = x + 12$  and  $YK = 2x - 12$



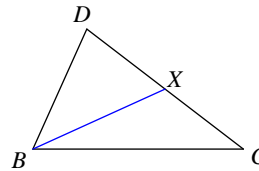
- A) 10
- B) 1
- C) 6
- D) 12

3) Find  $x$  if  $HN = \frac{9 + 10x}{5}$  and  $NV = \frac{12x - 1}{10}$



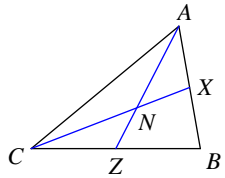
- A) 4
- B) 11
- C) 5
- D) 9

4) Find  $x$  if  $CD = 3x + 1$  and  $XD = x + 1$



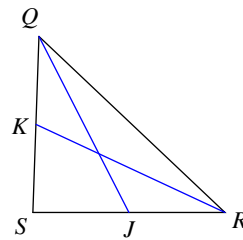
- A) 10
- B) 1
- C) 12
- D) 11

5) Find  $x$  if  $CX = x + 4$  and  $NX = 2x - 12$



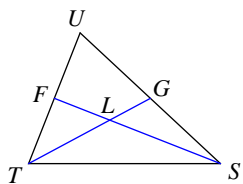
- A) 3
- B) 11
- C) 8
- D) 4

6) Find  $x$  if  $QS = 3x + 1$  and  $KS = 2x - 2$



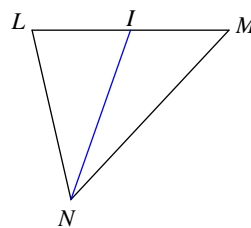
- A) 12
- B) 3.6
- C) 5
- D) 6

7) Find  $x$  if  $TL = 2x + 2$  and  $LG = 2x - 3$



- A) 4
- B) 10
- C) 2
- D) 9

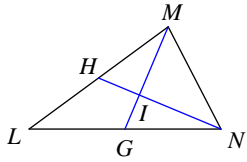
8) Find  $x$  if  $ML = 2x$  and  $IL = 2x - 1$



- A) 9
- B) 1
- C) 7
- D) 5

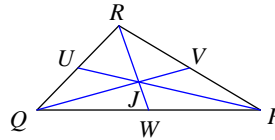


9) Find  $x$  if  $MI = -4 + x$  and  $IG = x - 7$



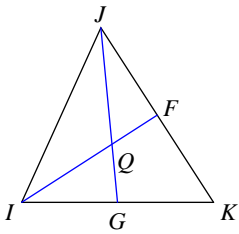
- A) 3            B) 10  
C) 11          D) 8

10) Find  $x$  if  $QV = 8x + 3$  and  $JV = 4x - 3$



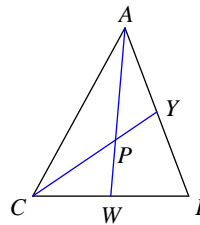
- A) 4            B) 5.7  
C) 3            D) 10.9

11) Find  $x$  if  $IQ = 2x - 1$  and  $IF = 2x + 2$



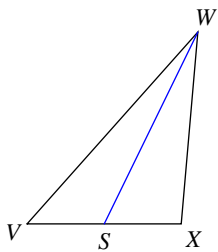
- A) 8            B) 3.5  
C) 7.1          D) 9

12) Find  $x$  if  $CP = 4x - 2$  and  $PY = x + 3$



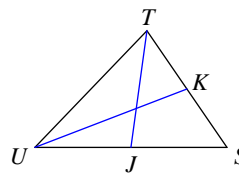
- A) 4            B) 12  
C) 6            D) 11

13) Find  $x$  if  $SX = \frac{1}{2}x + \frac{1}{2}$  and  $SV = \frac{2x - 5}{2}$



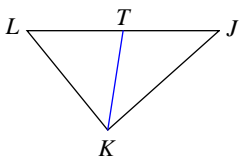
- A) 8            B) 6  
C) 10.2          D) 1

14) Find  $x$  if  $JS = \frac{8x - 1}{5}$  and  $JU = \frac{6}{5}x + 1$



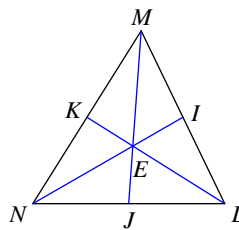
- A) 7            B) 11  
C) 4            D) 3

15) Find  $x$  if  $JL = 5x - 4$  and  $TL = 2x$



- A) 7            B) 9.2  
C) 4            D) 5

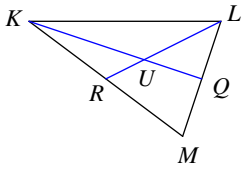
16) Find  $x$  if  $LE = x + 1$  and  $EK = 2x - 10$



- A) 6            B) 9  
C) 7            D) 1.3

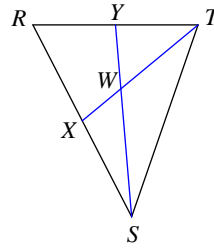


17) Find  $x$  if  $LR = 3 + \frac{3}{2}x$  and  $UR = x - \frac{3}{2}$



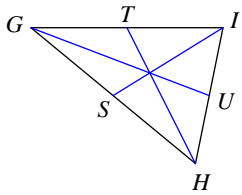
- A) 4      B) 9  
C) 2      D) 5

18) Find  $x$  if  $SW = x$  and  $WY = x - 6$



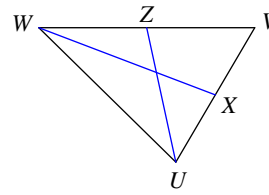
- A) 11      B) 5  
C) 2      D) 12

19) Find  $x$  if  $HI = \frac{x+3}{5}$  and  $UI = \frac{2x-3}{10}$



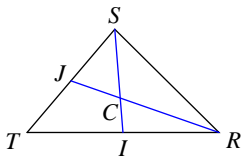
- A) 7      B) 11  
C) 6      D) 4.5

20) Find  $x$  if  $UV = 2x + 1$  and  $XV = \frac{x+3}{2}$



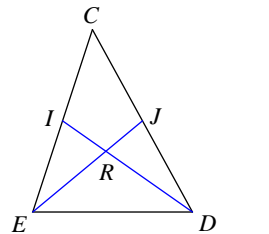
- A) 3      B) 12  
C) 2      D) 1

21) Find  $x$  if  $SC = 3x - 11$  and  $SI = 3x$



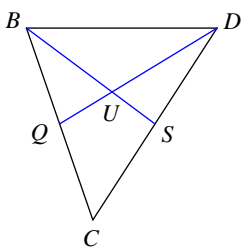
- A) 7.7      B) 7  
C) 11      D) 12

22) Find  $x$  if  $DR = 2x - 2$  and  $DI = 2x + 1$



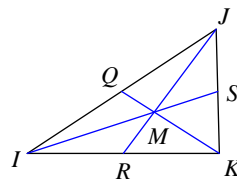
- A) 5.3      B) 3  
C) 5      D) 4

23) Find  $x$  if  $SD = 2x - 8$  and  $SC = x - 2$



- A) 12      B) 6  
C) 1.5      D) 3

24) Find  $x$  if  $JM = 2x - 7$  and  $JR = \frac{2x+11}{2}$



- A) 9      B) 8.5  
C) 8      D) 4.2



## Answers to Assignment (ID: 8)

- 1) B
- 5) C
- 9) B
- 13) B
- 17) D
- 21) C

- 2) D
- 6) C
- 10) C
- 14) D
- 18) D
- 22) D

- 3) C
- 7) A
- 11) B
- 15) C
- 19) C
- 23) B

- 4) B
- 8) B
- 12) A
- 16) C
- 20) C
- 24) C

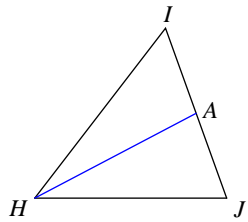




Assignment

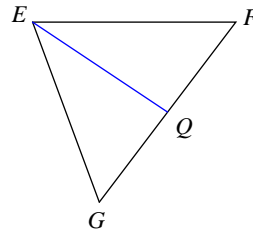
Each figure shows a triangle with one or more of its medians.

1) Find  $x$  if  $JI = 11x + 1$  and  $AI = 7x - 1$



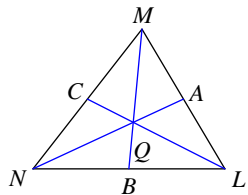
- A) 1
- B) 5
- C) 11
- D) 6

2) Find  $x$  if  $QF = 2x - 8$  and  $QG = x - 3$



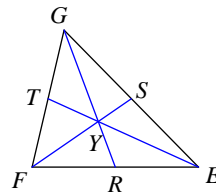
- A) 12
- B) 5
- C) 1
- D) 3

3) Find  $x$  if  $LC = 3x - 3$  and  $QC = 2x - 9$



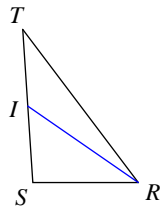
- A) 8.4
- B) 4.1
- C) 1
- D) 8

4) Find  $x$  if  $FY = x$  and  $YS = 2x - 6$



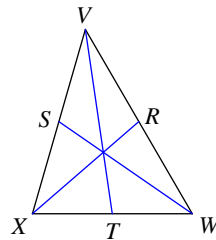
- A) 8
- B) 4
- C) 10
- D) 12

5) Find  $x$  if  $TS = 5x - 3$  and  $IS = 3x - 4$



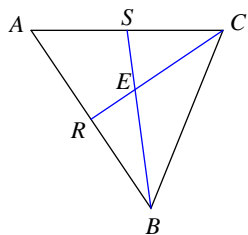
- A) 5
- B) 1
- C) 12
- D) 4

6) Find  $x$  if  $VX = 2x - 6$  and  $SX = 2x - 10$



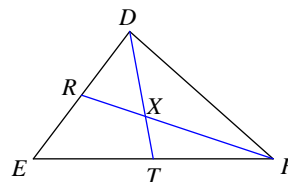
- A) 3
- B) 4
- C) 7
- D) 11

7) Find  $x$  if  $CE = 5x - 6$  and  $ER = 5x - 9$



- A) 6
- B) 2.4
- C) 5
- D) 11.2

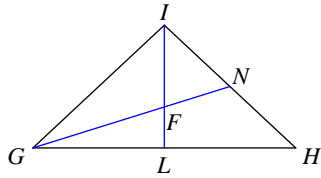
8) Find  $x$  if  $FR = 5x - 2$  and  $XR = 2x - 3$



- A) 2
- B) 1
- C) 9
- D) 7

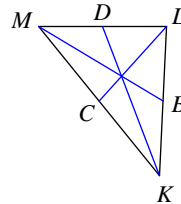


9) Find  $x$  if  $IF = x$  and  $FL = x - 5$



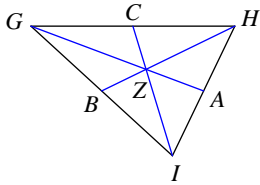
- A) 6            B) 10.7  
C) 10          D) 3

10) Find  $x$  if  $LM = 3x - 8$  and  $DM = x$



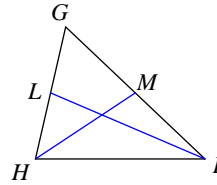
- A) 2            B) 6  
C) 8            D) 11

11) Find  $x$  if  $IZ = 3x - 4$  and  $IC = 4x - 3$



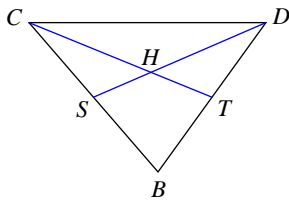
- A) 6            B) 10  
C) 8            D) 11

12) Find  $x$  if  $MG = 7x - 1$  and  $MI = 5x + 1$



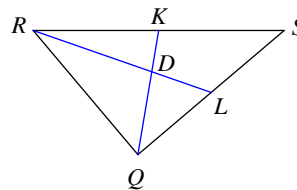
- A) 8            B) 1  
C) 8.4        D) 9.4

13) Find  $x$  if  $CH = x - 7$  and  $CT = x - 6$



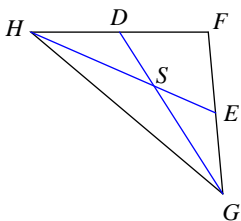
- A) 9            B) 11.2  
C) 2            D) 1.5

14) Find  $x$  if  $RL = x + 1$  and  $DL = x - 7$



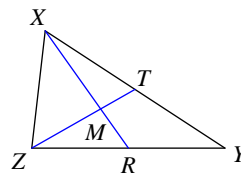
- A) 11           B) 2.9  
C) 4            D) 1

15) Find  $x$  if  $GD = x + 2$  and  $SD = x - 6$



- A) 2            B) 10  
C) 4            D) 8.4

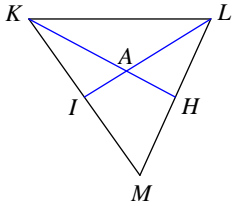
16) Find  $x$  if  $XM = \frac{8}{5}x - \frac{4}{5}$  and  $XR = \frac{9x + 9}{5}$



- A) 5            B) 7  
C) 9            D) 7.7

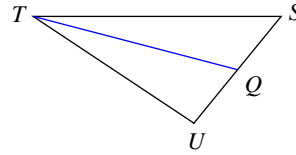


17) Find  $x$  if  $LA = x + 8$  and  $LI = 3x - 6$



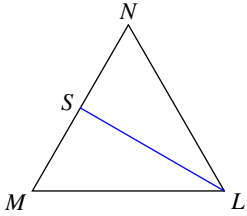
- A) 6      B) 3.7  
C) 12     D) 8

18) Find  $x$  if  $QS = 8x$  and  $QU = 7x + 1$



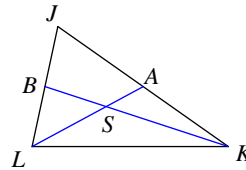
- A) 10      B) 3  
C) 6        D) 1

19) Find  $x$  if  $SM = 2x - 5$  and  $SN = x - 2$



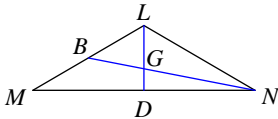
- A) 12      B) 3  
C) 5        D) 9.5

20) Find  $x$  if  $BL = \frac{8x + 1}{10}$  and  $BJ = \frac{-11 + 9x}{10}$



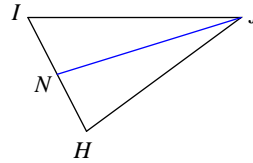
- A) 7         B) 4  
C) 12      D) 9

21) Find  $x$  if  $LG = 2x - 2$  and  $LD = 2x + 2$



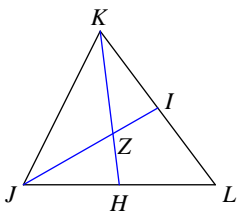
- A) 3         B) 1  
C) 8         D) 5

22) Find  $x$  if  $NH = x - 3$  and  $NI = 2x - 12$



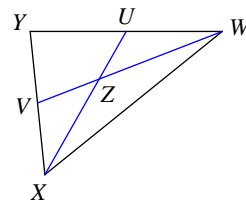
- A) 6         B) 9  
C) 7         D) 4

23) Find  $x$  if  $KZ = 4x - 5$  and  $ZH = \frac{2x + 5}{2}$



- A) 8         B) 3  
C) 5         D) 1

24) Find  $x$  if  $XZ = 2x - 4$  and  $ZU = 2x - 7$



- A) 4         B) 5  
C) 1         D) 1.2



## Answers to Assignment (ID: 9)

- 1) A
- 5) A
- 9) C
- 13) A
- 17) C
- 21) D

- 2) B
- 6) C
- 10) C
- 14) A
- 18) D
- 22) B

- 3) D
- 7) B
- 11) A
- 15) B
- 19) B
- 23) C

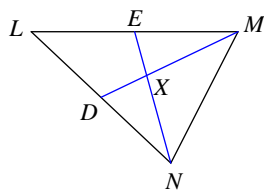
- 4) B
- 8) D
- 12) B
- 16) A
- 20) C
- 24) B



## Assignment

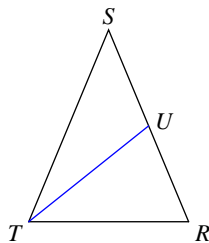
Each figure shows a triangle with one or more of its medians.

1) Find  $x$  if  $NX = \frac{7}{5}x - \frac{4}{5}$  and  $NE = 2x - \frac{4}{5}$



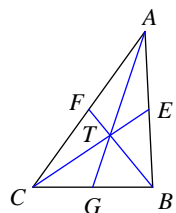
- A) 6      B) 5  
C) 4      D) 10

2) Find  $x$  if  $US = 2x - 7$  and  $UR = -3 + x$



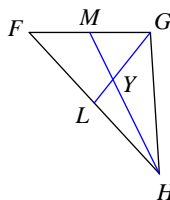
- A) 5      B) 4  
C) 3      D) 12

3) Find  $x$  if  $CT = x - 1$  and  $CE = 2x - 4$



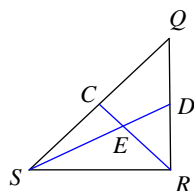
- A) 4      B) 5  
C) 7      D) 3

4) Find  $x$  if  $HY = \frac{2x - 5}{2}$  and  $YM = \frac{x + 6}{4}$



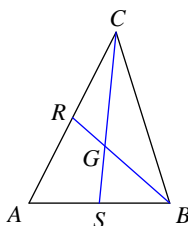
- A) 7      B) 11  
C) 1      D) 5.7

5) Find  $x$  if  $RC = 2x - 10$  and  $EC = x - 7$



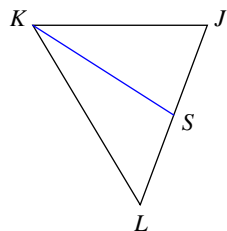
- A) 5      B) 11  
C) 10     D) 6

6) Find  $x$  if  $AB = x - 2$  and  $SB = -3 + x$



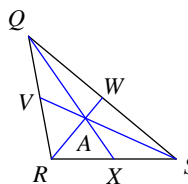
- A) 12     B) 4  
C) 8.8    D) 8

7) Find  $x$  if  $LJ = x - 9$  and  $SJ = x - 10$



- A) 11     B) 2.4  
C) 4.7    D) 6

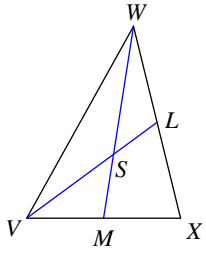
8) Find  $x$  if  $SV = 8x + 2$  and  $AV = 2x + 2$



- A) 5      B) 3.5  
C) 12     D) 2

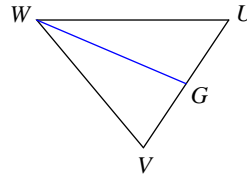


9) Find  $x$  if  $WS = x + 10$  and  $WM = 3x - 3$



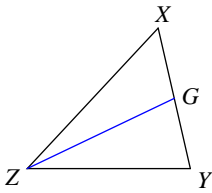
- A) 12      B) 10  
C) 2        D) 11

10) Find  $x$  if  $VU = 2x - 1$  and  $GU = \frac{x + 4}{2}$



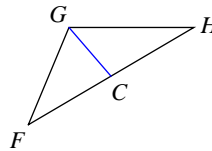
- A) 10      B) 11  
C) 6.9     D) 5

11) Find  $x$  if  $GX = x - 2$  and  $GY = 2x - 6$



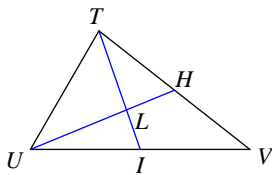
- A) 5.7      B) 11  
C) 4        D) 1

12) Find  $x$  if  $FH = 3x + 1$  and  $CH = x + 4$



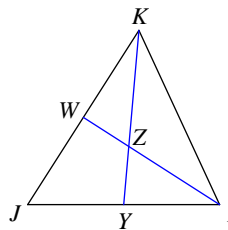
- A) 8         B) 7  
C) 7.9      D) 4

13) Find  $x$  if  $TL = -\frac{6}{5} + \frac{3}{5}x$  and  $LI = \frac{2}{5}x - \frac{8}{5}$



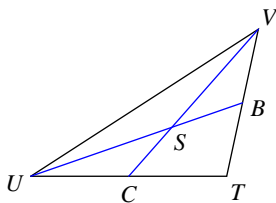
- A) 12      B) 7  
C) 3        D) 10

14) Find  $x$  if  $IZ = 2x + 4$  and  $ZW = 2x + \frac{1}{2}$



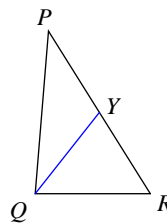
- A) 6         B) 6.7  
C) 7        D) 1.5

15) Find  $x$  if  $US = 3x - 4$  and  $SB = x$



- A) 4         B) 6  
C) 2        D) 1.9

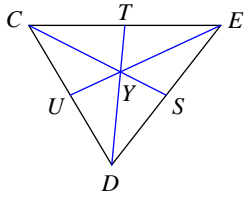
16) Find  $x$  if  $RP = 2x - 4$  and  $YP = 2x - 10$



- A) 1         B) 8  
C) 10.3     D) 6

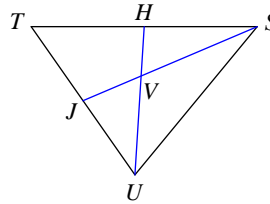


17) Find  $x$  if  $EY = 5x + 3$  and  $EU = 9x$



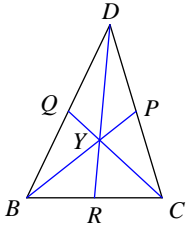
- A) 3      B) 2  
C) 10     D) 5

18) Find  $x$  if  $SJ = x - 2$  and  $VJ = x - 4$



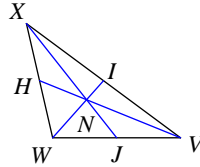
- A) 11      B) 7  
C) 10      D) 5

19) Find  $x$  if  $DY = x + 7$  and  $YR = 2x - 7$



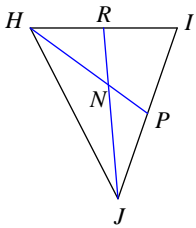
- A) 6      B) 11  
C) 9      D) 7

20) Find  $x$  if  $WN = 2x - 8$  and  $WI = x + 6$



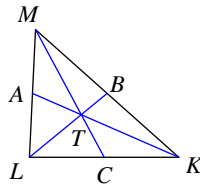
- A) 6.2      B) 9  
C) 8        D) 4.8

21) Find  $x$  if  $JI = x - 3$  and  $PI = 2x - 12$



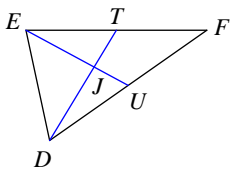
- A) 11      B) 6  
C) 1        D) 7

22) Find  $x$  if  $MT = x + 3$  and  $TC = 2x - 6$



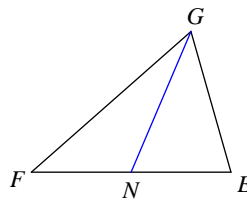
- A) 5        B) 12  
C) 1        D) 4.4

23) Find  $x$  if  $EJ = 5x + 1$  and  $JU = 3x - 1$



- A) 6      B) 7  
C) 3      D) 2

24) Find  $x$  if  $FE = x + 9$  and  $NE = x - 1$



- A) 9        B) 1.1  
C) 11      D) 4.4



## Answers to Assignment (ID: 10)

1) C  
5) B  
9) A  
13) D  
17) A  
21) D

2) B  
6) B  
10) D  
14) D  
18) D  
22) A

3) B  
7) A  
11) C  
15) A  
19) D  
23) C

4) B  
8) D  
12) B  
16) B  
20) B  
24) C

