Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(13, -10)$ and $(-1, 14)$

A) $(x+3)^2+(y+5)^2=193$
B) $x^2+(y+4)^2=37249$
C) $(x-6)^2+(y-2)^2=193$
D) $(x+2)^2+(y-6)^2=193$

2) Ends of a diameter: $(-14, 4)$ and $(-4, 6)$

A) $(x+9)^2+(y-5)^2=26$
B) $(x-8)^2+(y-3)^2=26$
C) $(x+9)^2+(y-5)^2=676$
D) $(x+3)^2+(y-7)^2=1$

3) Ends of a diameter: $(-5, 11)$ and $(15, -3)$

A) $(x-5)^2+(y-4)^2=149$
B) $(x+5)^2+(y-4)^2=149$
C) $(x+4)^2+(y-5)^2=149$
D) $(x+5)^2+(y+4)^2=22201$

4) Ends of a diameter: $(7, 1)$ and $(-3, 15)$

A) $(x+8)^2+(y-2)^2=74$
B) $(x-2)^2+(y-8)^2=74$
C) $(x-10)^2+(y+2)^2=74$
D) $(x+10)^2+y^2=5476$

5) Ends of a diameter: $(-10, 0)$ and $(4, -12)$

A) $(x+3)^2+(y+6)^2=85$
B) $(x-6)^2+(y-3)^2=85$
C) $(x+6)^2+(y-3)^2=7225$
D) $(x-3)^2+(y+8)^2=1$

6) Ends of a diameter: $(4, 0)$ and $(-12, 4)$

A) $(x+2)^2+(y-4)^2=68$
B) $(x-4)^2+(y-2)^2=68$
C) $(x-2)^2+(y-4)^2=1$
D) $(x+4)^2+(y-2)^2=68$

7) Ends of a diameter: $(4, -12)$ and $(0, -12)$

A) $(x-12)^2+(y-2)^2=4$
B) $(x-2)^2+(y+12)^2=4$
C) $(x+2)^2+(y+14)^2=16$
D) $(x-2)^2+(y+12)^2=16$

8) Ends of a diameter: $(15, 12)$ and $(1, -4)$

A) $(x-8)^2+(y-4)^2=113$
B) $(x+8)^2+(y+4)^2=36$
C) $(x-6)^2+(y+8)^2=113$
D) $(x+8)^2+(y-4)^2=4$

9) Ends of a diameter: $(-11, 14)$ and $(-7, 14)$

A) $(x+9)^2+(y-14)^2=4$
B) $(x-9)^2+(y+14)^2=16$
C) $(x-9)^2+(y-14)^2=16$
D) $(x-9)^2+(y-14)^2=4$

10) Ends of a diameter: $(-6, 9)$ and $(-4, -15)$

A) $(x+6)^2+(y-3)^2=21025$
B) $(x+5)^2+(y+3)^2=145$
C) $(x+3)^2+(y-5)^2=145$
D) $(x+5)^2+(y-3)^2=21025$

11) Ends of a diameter: $(-16, 5)$ and $(-10, 7)$

A) $(x+13)^2+(y-6)^2=10$
B) $(x+6)^2+(y-13)^2=10$
C) $(x+13)^2+(y+6)^2=100$
D) $(x-6)^2+(y-13)^2=100$

12) Ends of a diameter: $(-1, -6)$ and $(11, 12)$

A) $(x+3)^2+(y-5)^2=117$
B) $(x-5)^2+(y-3)^2=117$
C) $(x+5)^2+(y+3)^2=117$
D) $(x-5)^2+(y-3)^2=13689$

13) Ends of a diameter: $(16, -12)$ and $(14, -8)$

A) $(x-15)^2+(y+10)^2=5$
B) $(x+15)^2+(y+8)^2=5$
C) $(x-15)^2+(y+10)^2=25$
D) $(x+15)^2+(y-12)^2=5$

14) Ends of a diameter: $(-4, -11)$ and $(4, -11)$

A) $x^2+(y+11)^2=16$
B) $(x+1)^2+(y+13)^2=16$
C) $x^2+(y-11)^2=256$
D) $(x-11)^2+y^2=16$

15) Ends of a diameter: $(-11, -13)$ and $(3, 1)$

A) $(x+4)^2+(y+6)^2=98$
B) $(x+4)^2+(y-6)^2=9604$
C) $(x-8)^2+(y+4)^2=9604$
D) $(x+4)^2+(y+6)^2=25$

16) Ends of a diameter: $(-10, 3)$ and $(-16, 13)$

A) $(x+13)^2+(y-8)^2=34$
B) $(x+13)^2+(y-8)^2=1$
C) $(x+8)^2+(y-13)^2=34$
D) $(x+13)^2+(y-8)^2=1156$

17) Ends of a diameter: $(4, 15)$ and $(-8, -1)$

A) $(x-5)^2+(y-1)^2=100$
B) $(x+2)^2+(y+7)^2=100$
C) $(x+2)^2+(y-7)^2=100$
D) $(x-2)^2+(y-7)^2=16$

18) Ends of a diameter: $(14, -4)$ and $(2, 10)$

A) $(x+3)^2+(y-8)^2=85$
B) $(x+8)^2+(y+3)^2=85$
C) $(x-8)^2+(y-3)^2=7225$
D) $(x-8)^2+(y-3)^2=85$

19) Ends of a diameter: $(11, 8)$ and $(-3, 14)$

A) $(x-4)^2+(y-11)^2=58$
B) $(x+3)^2+(y-10)^2=58$
C) $(x-4)^2+(y+11)^2=58$
D) $(x-4)^2+(y-11)^2=4$

20) Ends of a diameter: $(13, 17)$ and $(11, 13)$

A) $(x+12)^2+(y-15)^2=25$
B) $(x-12)^2+(y-15)^2=5$
C) $(x-12)^2+(y+15)^2=25$
D) $(x+15)^2+(y+12)^2=25$

21) Ends of a diameter: $(-18, 3)$ and $(10, -1)$

A) $(x+1)^2+(y-4)^2=200$
B) $(x-2)^2+(y+3)^2=200$
C) $(x+4)^2+(y-1)^2=200$
D) $(x+1)^2+(y+4)^2=40000$

22) Ends of a diameter: $(2, -5)$ and $(-3, 9)$

A) $\left(x-\frac{1}{2}\right)^2+(y-2)^2=\frac{221}{4}$
B) $\left(x+\frac{1}{2}\right)^2+(y-2)^2=\frac{221}{4}$
C) $\left(x+\frac{1}{2}\right)^2+(y+2)^2=3025$
D) $\left(x-\frac{1}{2}\right)^2+(y+2)^2=3025$

23) Ends of a diameter: $(-14, 4)$ and $(2, 11)$

A) $(x+6)^2+\left(y-\frac{15}{2}\right)^2=\frac{305}{4}$
B) $(x-4)^2+\left(y+\frac{19}{2}\right)^2=\frac{305}{4}$
C) $(x-7)^2+\left(y-\frac{15}{2}\right)^2=\frac{305}{4}$
D) $(x+6)^2+\left(y-\frac{15}{2}\right)^2=5776$

24) Ends of a diameter: $(18, 3)$ and $(11, -4)$

A) $\left(x+\frac{33}{2}\right)^2+\left(y-\frac{1}{2}\right)^2=\frac{49}{2}$
B) $\left(x+\frac{31}{2}\right)^2+\left(y-\frac{1}{2}\right)^2=625$
C) $\left(x+\frac{1}{2}\right)^2+\left(y+\frac{29}{2}\right)^2=625$
D) $\left(x-\frac{29}{2}\right)^2+\left(y+\frac{1}{2}\right)^2=\frac{49}{2}$

Answers to Assignment (ID: 1)

1) C
2) A
3) A
4) B
5) A
6) D
7) B
8) A
9) A
10) B
11) A
12) B
13) A
14) A
15) A
16) A
17) C
18) D
19) A
20) B
21) C
22) B
23) A
24) D

Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(18, 0)$ and $(-8, 8)$

A) $(x-5)^2+(y-4)^2=185$
B) $(x-5)^2+(y-4)^2=34225$
C) $(x-5)^2+(y-4)^2=121$
D) $(x+4)^2+(y-5)^2=185$

2) Ends of a diameter: $(-2, 19)$ and $(-4, 17)$

A) $(x+3)^2+(y+18)^2=2$
B) $(x-2)^2+(y+16)^2=4$
C) $(x+3)^2+(y-18)^2=2$
D) $(x+18)^2+(y-3)^2=4$

3) Ends of a diameter: $(3, 4)$ and $(19, 6)$

A) $(x-11)^2+(y-5)^2=4225$
B) $(x-11)^2+(y-5)^2=65$
C) $(x+3)^2+(y+10)^2=65$
D) $(x-11)^2+(y+5)^2=4225$

4) Ends of a diameter: $(-5, -1)$ and $(3, 5)$

A) $(x+1)^2+(y-2)^2=625$
B) $(x+1)^2+(y-2)^2=25$
C) $(x-1)^2+(y+2)^2=25$
D) $x^2+(y-1)^2=25$

5) Ends of a diameter: $(-12, 8)$ and $(4, 14)$

A) $(x+4)^2+(y-11)^2=73$
B) $(x+11)^2+(y-4)^2=73$
C) $(x-11)^2+(y-5)^2=5329$
D) $(x+13)^2+(y-6)^2=73$

6) Ends of a diameter: $(17, -4)$ and $(-5, 4)$

A) $x^2+(y+6)^2=137$
B) $(x+6)^2+y^2=137$
C) $(x-6)^2+y^2=18769$
D) $(x-6)^2+y^2=137$

7) Ends of a diameter: $(15, -3)$ and $(-7, -11)$

A) $(x-4)^2+(y+7)^2=137$
B) $(x-4)^2+(y+7)^2=16$
C) $(x+7)^2+(y+4)^2=18769$
D) $(x-7)^2+(y+3)^2=18769$

8) Ends of a diameter: $(2, 11)$ and $(-12, 3)$

A) $(x+5)^2+(y-7)^2=4225$
B) $(x+5)^2+(y-7)^2=65$
C) $(x-7)^2+(y-5)^2=25$
D) $(x+5)^2+(y+7)^2=65$

9) Ends of a diameter: $(-9, -10)$ and $(9, 12)$

A) $(x-2)^2 + y^2 = 202$
B) $x^2 + (y-1)^2 = 202$
C) $(x+1)^2 + (y+1)^2 = 202$
D) $x^2 + (y-1)^2 = 36$

10) Ends of a diameter: $(11, -12)$ and $(-11, 12)$

A) $(x+2)^2 + y^2 = 265$
B) $x^2 + y^2 = 70225$
C) $x^2 + y^2 = 265$
D) $(x+1)^2 + (y+1)^2 = 265$

11) Ends of a diameter: $(-12, 12)$ and $(2, -12)$

A) $x^2 + (y-5)^2 = 37249$
B) $(x-1)^2 + (y-4)^2 = 193$
C) $(x-3)^2 + (y+2)^2 = 193$
D) $(x+5)^2 + y^2 = 193$

12) Ends of a diameter: $(-7, -15)$ and $(1, -11)$

A) $(x-13)^2 + (y-3)^2 = 20$
B) $(x-13)^2 + (y+1)^2 = 20$
C) $(x-3)^2 + (y-15)^2 = 20$
D) $(x+3)^2 + (y+13)^2 = 20$

13) Ends of a diameter: $(6, 1)$ and $(-8, 11)$

A) $(x+1)^2 + (y-6)^2 = 74$
B) $(x-1)^2 + (y-6)^2 = 74$
C) $(x+1)^2 + (y-6)^2 = 5476$
D) $(x+6)^2 + (y+1)^2 = 74$

14) Ends of a diameter: $(-7, -7)$ and $(3, -15)$

A) $(x-10)^2 + y^2 = 41$
B) $(x-2)^2 + (y-11)^2 = 41$
C) $(x-2)^2 + (y+11)^2 = 41$
D) $(x+2)^2 + (y+11)^2 = 41$

15) Ends of a diameter: $(15, 7)$ and $(-5, -5)$

A) $(x+3)^2 + (y+3)^2 = 136$
B) $(x+1)^2 + (y-5)^2 = 136$
C) $(x-5)^2 + (y-1)^2 = 136$
D) $x^2 + (y+7)^2 = 136$

16) Ends of a diameter: $(9, -1)$ and $(13, -17)$

A) $(x+11)^2 + (y-9)^2 = 4624$
B) $(x-11)^2 + (y-9)^2 = 4624$
C) $(x-11)^2 + (y+9)^2 = 68$
D) $(x+11)^2 + (y-9)^2 = 68$

17) Ends of a diameter: $(8, 18)$ and $(-4, -8)$

A) $(x+5)^2+(y+2)^2=42025$
B) $(x+2)^2+(y+5)^2=42025$
C) $(x+7)^2+(y+3)^2=205$
D) $(x-2)^2+(y-5)^2=205$

18) Ends of a diameter: $(11, -1)$ and $(-7, 9)$

A) $(x-6)^2+y^2=11236$
B) $(x-2)^2+(y-4)^2=11236$
C) $(x-4)^2+(y+6)^2=106$
D) $(x-2)^2+(y-4)^2=106$

19) Ends of a diameter: $(2, 7)$ and $(4, 7)$

A) $(x+7)^2+(y+3)^2=1$
B) $(x-3)^2+(y-7)^2=1$
C) $(x-3)^2+(y+7)^2=1$
D) $(x-7)^2+(y+3)^2=4$

20) Ends of a diameter: $(-9, -4)$ and $(17, -6)$

A) $(x-4)^2+(y+5)^2=170$
B) $(x-4)^2+(y+5)^2=28900$
C) $(x+5)^2+(y+2)^2=170$
D) $(x-6)^2+(y-3)^2=170$

21) Ends of a diameter: $(-4, 15)$ and $(12, -9)$

A) $(x-4)^2+(y-3)^2=208$
B) $(x-5)^2+(y+5)^2=208$
C) $(x-2)^2+(y+5)^2=208$
D) $(x+3)^2+(y+4)^2=9$

22) Ends of a diameter: $(-2, 8)$ and $(-8, 18)$

A) $(x+5)^2+(y-13)^2=34$
B) $(x-5)^2+(y-13)^2=1156$
C) $(x-5)^2+(y+13)^2=34$
D) $(x+5)^2+(y-13)^2=1156$

23) Ends of a diameter: $(-6, -8)$ and $(-10, -6)$

A) $(x+10)^2+(y-6)^2=5$
B) $(x+7)^2+(y-9)^2=5$
C) $(x+8)^2+(y+7)^2=5$
D) $(x+8)^2+(y+7)^2=1$

24) Ends of a diameter: $(-8, 0)$ and $(10, 6)$

A) $(x-3)^2+(y+1)^2=90$
B) $(x-1)^2+(y-3)^2=8100$
C) $(x-1)^2+(y-3)^2=90$
D) $(x-1)^2+(y+3)^2=8100$

Answers to Assignment (ID: 2)

1) A
2) C
3) B
4) B
5) A
6) D
7) A
8) B
9) B
10) C
11) D
12) D
13) A
14) D
15) C
16) C
17) D
18) D
19) B
20) A
21) A
22) A
23) C
24) C

Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(12, -2)$ and $(10, 6)$

A) $(x+2)^2+(y-11)^2=17$
B) $(x-2)^2+(y+11)^2=17$
C) $(x+2)^2+(y+11)^2=17$
D) $(x-11)^2+(y-2)^2=17$

2) Ends of a diameter: $(-8, -5)$ and $(8, 1)$

A) $x^2+(y+2)^2=73$
B) $x^2+(y+2)^2=64$
C) $x^2+(y+1)^2=73$
D) $x^2+(y+2)^2=5329$

3) Ends of a diameter: $(14, -13)$ and $(14, -19)$

A) $(x-14)^2+(y+16)^2=81$
B) $(x-16)^2+(y+14)^2=81$
C) $(x-16)^2+(y-14)^2=9$
D) $(x-14)^2+(y+16)^2=9$

4) Ends of a diameter: $(-8, 8)$ and $(-2, -2)$

A) $(x+5)^2+(y-3)^2=34$
B) $(x-5)^2+(y+3)^2=34$
C) $(x+5)^2+(y-3)^2=1156$
D) $(x-4)^2+(y-5)^2=34$

5) Ends of a diameter: $(11, -6)$ and $(-3, 4)$

A) $(x-1)^2+(y+4)^2=74$
B) $(x+1)^2+(y+4)^2=74$
C) $(x-4)^2+(y+1)^2=74$
D) $(x+4)^2+(y+1)^2=74$

6) Ends of a diameter: $(3, -7)$ and $(-8, -4)$

A) $\left(x-\frac{11}{2}\right)^2+\left(y-\frac{5}{2}\right)^2=1089$
B) $\left(x+\frac{1}{2}\right)^2+\left(y-\frac{15}{2}\right)^2=1089$
C) $\left(x-\frac{7}{2}\right)^2+\left(y+\frac{7}{2}\right)^2=\frac{65}{2}$
D) $\left(x+\frac{5}{2}\right)^2+\left(y+\frac{11}{2}\right)^2=\frac{65}{2}$

7) Ends of a diameter: $(2, 8)$ and $(-8, -18)$

A) $(x+5)^2+(y-3)^2=194$
B) $(x-3)^2+(y-5)^2=194$
C) $(x+4)^2+(y-2)^2=194$
D) $(x+3)^2+(y+5)^2=194$

8) Ends of a diameter: $(-6, -17)$ and $(-1, 10)$

A) $\left(x-\frac{7}{2}\right)^2+\left(y-\frac{7}{2}\right)^2=\frac{377}{2}$
B) $\left(x+\frac{7}{2}\right)^2+\left(y+\frac{7}{2}\right)^2=\frac{377}{2}$
C) $\left(x-\frac{7}{2}\right)^2+\left(y+\frac{7}{2}\right)^2=35721$
D) $\left(x+\frac{7}{2}\right)^2+\left(y-\frac{9}{2}\right)^2=\frac{377}{2}$

9) Ends of a diameter: $(-3, -13)$ and $(15, 3)$

A) $(x-6)^2+(y+5)^2=145$

B) $(x+5)^2+(y-4)^2=21025$

C) $(x-6)^2+(y-5)^2=145$

D) $(x-6)^2+(y+5)^2=21025$

10) Ends of a diameter: $(3, -6)$ and $(19, -6)$

A) $(x-11)^2+(y+6)^2=64$

B) $(x-11)^2+(y+6)^2=4096$

C) $(x-6)^2+(y+11)^2=64$

D) $(x-8)^2+(y-12)^2=64$

11) Ends of a diameter: $(-19, 3)$ and $(-11, 8)$

A) $(x+15)^2+\left(y-\frac{11}{2}\right)^2=\frac{89}{4}$

B) $(x-15)^2+\left(y-\frac{11}{2}\right)^2=484$

C) $\left(x+\frac{11}{2}\right)^2+(y-15)^2=484$

D) $\left(x+\frac{11}{2}\right)^2+(y+15)^2=484$

12) Ends of a diameter: $(10, 5)$ and $(-14, -7)$

A) $(x+2)^2+(y+1)^2=32400$

B) $(x+2)^2+(y-1)^2=180$

C) $(x+2)^2+(y+1)^2=180$

D) $(x+1)^2+(y+1)^2=32400$

13) Ends of a diameter: $(-17, -17)$ and $(-17, -13)$

A) $(x+15)^2+(y-17)^2=1$

B) $(x-15)^2+(y-17)^2=16$

C) $(x+17)^2+(y+15)^2=4$

D) $(x+17)^2+(y+15)^2=16$

14) Ends of a diameter: $(-4, 1)$ and $(16, 11)$

A) $(x-6)^2+(y-6)^2=125$

B) $(x-6)^2+(y-6)^2=15625$

C) $(x+8)^2+(y+4)^2=125$

D) $(x+7)^2+(y+6)^2=125$

15) Ends of a diameter: $(17, -3)$ and $(3, 5)$

A) $(x-10)^2+(y-1)^2=65$

B) $(x+1)^2+(y-10)^2=65$

C) $(x+1)^2+(y+12)^2=65$

D) $(x-10)^2+(y-1)^2=4$

16) Ends of a diameter: $(1, 15)$ and $(7, -5)$

A) $(x-4)^2+(y-5)^2=109$

B) $(x+4)^2+(y-5)^2=11881$

C) $(x+5)^2+(y-4)^2=109$

D) $(x-5)^2+(y+4)^2=109$

17) Ends of a diameter: $(0, 0)$ and $(8, 2)$

A) $(x-4)^2+(y-1)^2=17$

B) $(x-4)^2+(y+1)^2=289$

C) $(x-1)^2+(y-2)^2=17$

D) $(x-4)^2+(y-1)^2=289$

18) Ends of a diameter: $(7, -13)$ and $(-5, 3)$

A) $(x-1)^2 + (y+5)^2 = 10000$
B) $(x-1)^2 + (y+5)^2 = 100$
C) $(x+5)^2 + y^2 = 100$
D) $(x-3)^2 + (y-1)^2 = 10000$

19) Ends of a diameter: $(-13, 3)$ and $(-17, 9)$

A) $(x+6)^2 + (y-15)^2 = 13$
B) $(x+15)^2 + (y-6)^2 = 13$
C) $(x+13)^2 + (y+6)^2 = 13$
D) $(x+6)^2 + (y+15)^2 = 13$

20) Ends of a diameter: $(6, -9)$ and $(2, -5)$

A) $(x-4)^2 + (y+7)^2 = 8$
B) $(x+4)^2 + (y-5)^2 = 64$
C) $(x-4)^2 + (y+7)^2 = 64$
D) $(x-6)^2 + (y-9)^2 = 8$

21) Ends of a diameter: $(7, -3)$ and $(-15, -9)$

A) $(x-4)^2 + (y-6)^2 = 130$
B) $(x-6)^2 + (y+4)^2 = 16900$
C) $(x+4)^2 + (y+6)^2 = 130$
D) $(x-4)^2 + (y+6)^2 = 16900$

22) Ends of a diameter: $(-2, -13)$ and $(2, -5)$

A) $x^2 + (y+9)^2 = 20$
B) $(x-1)^2 + (y-7)^2 = 20$
C) $x^2 + (y-9)^2 = 20$
D) $x^2 + (y+9)^2 = 400$

23) Ends of a diameter: $(14, -2)$ and $(0, -12)$

A) $(x+5)^2 + (y+5)^2 = 74$
B) $(x-7)^2 + (y+7)^2 = 5476$
C) $(x+7)^2 + (y-7)^2 = 74$
D) $(x-7)^2 + (y+7)^2 = 74$

24) Ends of a diameter: $(-5, 8)$ and $(3, 12)$

A) $(x+1)^2 + (y-10)^2 = 20$
B) $(x+1)^2 + (y-10)^2 = 400$
C) $(x-1)^2 + (y+10)^2 = 20$
D) $(x+10)^2 + (y-1)^2 = 20$

Answers to Assignment (ID: 3)

1) D
2) A
3) D
4) A
5) C
6) D
7) D
8) B
9) A
10) A
11) A
12) C
13) C
14) A
15) A
16) A
17) A
18) B
19) B
20) A
21) C
22) A
23) D
24) A

Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(-1, -11)$ and $(3, 11)$

A) $(x-1)^2 + y^2 = 36$
B) $(x+1)^2 + (y+1)^2 = 125$
C) $(x-1)^2 + y^2 = 125$
D) $(x+1)^2 + y^2 = 125$

2) Ends of a diameter: $(-10, 17)$ and $(-2, 7)$

A) $(x-6)^2 + (y-12)^2 = 41$
B) $(x-8)^2 + (y-13)^2 = 1681$
C) $(x+6)^2 + (y-12)^2 = 41$
D) $(x+6)^2 + (y-12)^2 = 1681$

3) Ends of a diameter: $(-8, 14)$ and $(-10, 0)$

A) $(x+9)^2 + (y-7)^2 = 2500$
B) $(x+9)^2 + (y-7)^2 = 50$
C) $(x+9)^2 + (y+9)^2 = 2500$
D) $(x+7)^2 + (y+11)^2 = 2500$

4) Ends of a diameter: $(-17, 3)$ and $(-5, 1)$

A) $(x+11)^2 + (y-2)^2 = 1369$
B) $(x-2)^2 + (y-11)^2 = 37$
C) $(x+11)^2 + (y-2)^2 = 37$
D) $(x-11)^2 + (y+2)^2 = 37$

5) Ends of a diameter: $(-9, -12)$ and $(-13, 0)$

A) $(x-11)^2 + (y-6)^2 = 1600$
B) $(x+11)^2 + (y+6)^2 = 40$
C) $(x+11)^2 + (y-6)^2 = 40$
D) $(x-11)^2 + (y+5)^2 = 40$

6) Ends of a diameter: $(17, 5)$ and $(11, 1)$

A) $(x-14)^2 + (y-3)^2 = 13$
B) $(x+3)^2 + (y+14)^2 = 13$
C) $(x-14)^2 + (y-3)^2 = 169$
D) $(x+13)^2 + (y-2)^2 = 169$

7) Ends of a diameter: $(0, 6)$ and $(8, -14)$

A) $(x-5)^2 + (y-3)^2 = 116$
B) $(x+4)^2 + (y+4)^2 = 116$
C) $(x-4)^2 + (y+4)^2 = 116$
D) $(x-4)^2 + (y+4)^2 = 13456$

8) Ends of a diameter: $(-4, -2)$ and $(-2, 0)$

A) $(x-1)^2 + (y+3)^2 = 2$
B) $(x-3)^2 + (y-1)^2 = 2$
C) $(x+3)^2 + (y+1)^2 = 2$
D) $(x+3)^2 + (y+1)^2 = 9$

9) Ends of a diameter: $(-4, -8)$ and $(2, -16)$

A) $(x-12)^2+(y+1)^2=625$

B) $(x+1)^2+(y+12)^2=25$

C) $(x+12)^2+(y+1)^2=25$

D) $(x+12)^2+(y-1)^2=25$

10) Ends of a diameter: $(-5, -14)$ and $(11, 6)$

A) $(x+2)^2+(y+5)^2=26896$

B) $(x-3)^2+(y-4)^2=164$

C) $(x-3)^2+(y+4)^2=164$

D) $(x-5)^2+(y-4)^2=164$

11) Ends of a diameter: $(8, 16)$ and $(8, -3)$

A) $\left(x+\frac{13}{2}\right)^2+(y+8)^2=\frac{361}{4}$

B) $(x-9)^2+\left(y+\frac{11}{2}\right)^2=\frac{361}{4}$

C) $(x-8)^2+\left(y-\frac{13}{2}\right)^2=8100$

D) $(x-8)^2+\left(y-\frac{13}{2}\right)^2=\frac{361}{4}$

12) Ends of a diameter: $(-6, -2)$ and $(-13, 12)$

A) $(x+5)^2+\left(y-\frac{19}{2}\right)^2=\frac{245}{4}$

B) $\left(x+\frac{19}{2}\right)^2+(y-5)^2=3721$

C) $\left(x+\frac{19}{2}\right)^2+(y-5)^2=\frac{245}{4}$

D) $\left(x-\frac{19}{2}\right)^2+(y-5)^2=\frac{245}{4}$

13) Ends of a diameter: $(-14, 8)$ and $(0, -6)$

A) $(x+3)^2+(y-6)^2=9604$

B) $(x+7)^2+(y-1)^2=9604$

C) $(x-2)^2+(y-6)^2=98$

D) $(x+7)^2+(y-1)^2=98$

14) Ends of a diameter: $(17, 6)$ and $(15, 8)$

A) $(x+8)^2+(y-18)^2=2$

B) $(x-16)^2+(y-7)^2=2$

C) $(x+7)^2+(y+16)^2=4$

D) $(x+17)^2+(y+5)^2=4$

15) Ends of a diameter: $(-2, 13)$ and $(-11, -2)$

A) $\left(x+\frac{15}{2}\right)^2+\left(y+\frac{9}{2}\right)^2=5929$

B) $\left(x+\frac{13}{2}\right)^2+\left(y-\frac{11}{2}\right)^2=\frac{153}{2}$

C) $\left(x+\frac{13}{2}\right)^2+\left(y-\frac{11}{2}\right)^2=49$

D) $\left(x-\frac{13}{2}\right)^2+\left(y-\frac{11}{2}\right)^2=\frac{153}{2}$

16) Ends of a diameter: $(-17, 7)$ and $(5, 9)$

A) $(x+6)^2+(y-8)^2=122$

B) $(x+8)^2+(y+6)^2=122$

C) $(x+8)^2+(y-6)^2=36$

D) $(x+7)^2+(y+9)^2=122$

17) Ends of a diameter: $(-6, 6)$ and $(-16, 6)$

A) $(x+11)^2+(y-6)^2=9$
B) $(x+11)^2+(y-6)^2=625$
C) $(x+6)^2+(y+9)^2=25$
D) $(x+11)^2+(y-6)^2=25$

18) Ends of a diameter: $(-9, 14)$ and $(-13, 16)$

A) $(x-11)^2+(y+15)^2=5$
B) $(x+11)^2+(y-15)^2=25$
C) $(x+11)^2+(y-15)^2=5$
D) $(x+16)^2+(y-12)^2=5$

19) Ends of a diameter: $(-11, 5)$ and $(-5, -13)$

A) $(x+10)^2+(y-5)^2=8100$
B) $(x+8)^2+(y+4)^2=90$
C) $(x+8)^2+(y-4)^2=90$
D) $(x+8)^2+(y+4)^2=8100$

20) Ends of a diameter: $(-9, -5)$ and $(-5, 17)$

A) $(x-7)^2+(y+6)^2=125$
B) $(x+7)^2+(y-6)^2=125$
C) $(x-9)^2+(y-6)^2=15625$
D) $(x+7)^2+(y+6)^2=125$

21) Ends of a diameter: $(-5, -10)$ and $(7, -4)$

A) $(x-1)^2+(y+7)^2=45$
B) $(x+1)^2+(y-7)^2=45$
C) $(x+1)^2+(y+7)^2=45$
D) $(x-5)^2+(y+1)^2=2025$

22) Ends of a diameter: $(-7, 1)$ and $(11, -3)$

A) $(x-1)^2+(y+2)^2=16$
B) $(x-2)^2+(y+1)^2=85$
C) $(x-3)^2+y^2=85$
D) $(x-2)^2+(y+1)^2=7225$

23) Ends of a diameter: $(-16, 3)$ and $(-12, 11)$

A) $(x+14)^2+(y+7)^2=20$
B) $(x+7)^2+(y+12)^2=20$
C) $(x+14)^2+(y-7)^2=20$
D) $(x+14)^2+(y-7)^2=400$

24) Ends of a diameter: $(13, -1)$ and $(13, 3)$

A) $(x+1)^2+(y+13)^2=16$
B) $(x+1)^2+(y-13)^2=4$
C) $(x-13)^2+(y-1)^2=16$
D) $(x-13)^2+(y-1)^2=4$

Answers to Assignment (ID: 4)

1) C
2) C
3) B
4) C
5) B
6) A
7) C
8) C
9) B
10) C
11) D
12) C
13) D
14) B
15) B
16) A
17) D
18) C
19) B
20) B
21) A
22) B
23) C
24) D

Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(-4, -7)$ and $(10, -5)$

A) $(x+3)^2+(y+6)^2=50$
B) $(x-6)^2+(y+3)^2=16$
C) $(x-3)^2+(y-6)^2=2500$
D) $(x-3)^2+(y+6)^2=50$

2) Ends of a diameter: $(2, -7)$ and $(-8, 7)$

A) $(x+3)^2+y^2=74$
B) $(x+3)^2+y^2=5476$
C) $(x-2)^2+y^2=5476$
D) $x^2+(y-3)^2=74$

3) Ends of a diameter: $(14, 7)$ and $(0, -7)$

A) $(x-7)^2+y^2=9604$
B) $(x-5)^2+(y+1)^2=98$
C) $x^2+(y+7)^2=98$
D) $(x-7)^2+y^2=98$

4) Ends of a diameter: $(5, 11)$ and $(11, 3)$

A) $(x-9)^2+(y+7)^2=25$
B) $(x+7)^2+(y-8)^2=25$
C) $(x+6)^2+(y-9)^2=25$
D) $(x-8)^2+(y-7)^2=25$

5) Ends of a diameter: $(-8, 8)$ and $(6, -10)$

A) $(x+1)^2+(y+1)^2=16900$
B) $(x+1)^2+(y+1)^2=25$
C) $(x+1)^2+(y+1)^2=130$
D) $(x+1)^2+(y-1)^2=16900$

6) Ends of a diameter: $(-11, 2)$ and $(-7, -10)$

A) $(x-4)^2+(y-9)^2=40$
B) $(x+9)^2+(y+4)^2=40$
C) $(x+9)^2+(y+4)^2=4$
D) $(x+9)^2+(y+4)^2=1600$

7) Ends of a diameter: $(-9, 2)$ and $(9, 4)$

A) $(x+5)^2+(y+2)^2=82$
B) $x^2+(y-3)^2=6724$
C) $x^2+(y-3)^2=82$
D) $(x-3)^2+y^2=82$

8) Ends of a diameter: $(-2, 14)$ and $(-4, -4)$

A) $(x+3)^2+(y-5)^2=82$
B) $(x+5)^2+(y-3)^2=82$
C) $(x+3)^2+(y-5)^2=6724$
D) $(x-3)^2+(y-5)^2=4$

9) Ends of a diameter: $(-16, 2)$ and $(-2, -12)$

A) $(x+9)^2+(y+5)^2=98$

B) $(x-5)^2+(y+9)^2=1$

C) $(x-5)^2+(y+7)^2=98$

D) $(x+9)^2+(y+5)^2=9604$

10) Ends of a diameter: $(-3, 7)$ and $(-15, 1)$

A) $(x-4)^2+(y-10)^2=2025$

B) $(x-9)^2+(y+4)^2=45$

C) $(x-2)^2+(y-7)^2=2025$

D) $(x+9)^2+(y-4)^2=45$

11) Ends of a diameter: $(-7, 7)$ and $(-7, -15)$

A) $(x+4)^2+(y-7)^2=121$

B) $(x-5)^2+(y-8)^2=14641$

C) $(x+7)^2+(y+4)^2=121$

D) $(x-6)^2+(y+5)^2=1$

12) Ends of a diameter: $(-1, 13)$ and $(-1, -19)$

A) $(x+1)^2+(y-1)^2=256$

B) $(x+1)^2+(y+3)^2=256$

C) $(x+1)^2+(y+3)^2=65536$

D) $(x-2)^2+(y+2)^2=65536$

13) Ends of a diameter: $(-10, 11)$ and $(6, -15)$

A) $(x+2)^2+(y+2)^2=54289$

B) $(x-3)^2+(y-3)^2=54289$

C) $(x+2)^2+(y+2)^2=233$

D) $(x-4)^2+y^2=233$

14) Ends of a diameter: $(3, -12)$ and $(15, -10)$

A) $(x-11)^2+(y+9)^2=37$

B) $(x+11)^2+(y+9)^2=37$

C) $(x+11)^2+(y+9)^2=1369$

D) $(x-9)^2+(y+11)^2=37$

15) Ends of a diameter: $(7, -5)$ and $(-14, 15)$

A) $\left(x-\frac{7}{2}\right)^2+(y-5)^2=\frac{841}{4}$

B) $\left(x+\frac{7}{2}\right)^2+(y+5)^2=\frac{841}{4}$

C) $\left(x+\frac{7}{2}\right)^2+(y-5)^2=\frac{841}{4}$

D) $\left(x+\frac{7}{2}\right)^2+(y-5)^2=44100$

16) Ends of a diameter: $(13, 3)$ and $(6, -12)$

A) $\left(x-\frac{19}{2}\right)^2+\left(y+\frac{9}{2}\right)^2=\frac{137}{2}$

B) $\left(x+\frac{13}{2}\right)^2+\left(y+\frac{19}{2}\right)^2=4761$

C) $\left(x-\frac{19}{2}\right)^2+\left(y-\frac{9}{2}\right)^2=\frac{137}{2}$

D) $\left(x-\frac{13}{2}\right)^2+\left(y+\frac{21}{2}\right)^2=\frac{137}{2}$

17) Ends of a diameter: $(16, -3)$ and $(0, 9)$

A) $(x-8)^2+(y-3)^2=100$
B) $(x-8)^2+(y+3)^2=10000$
C) $(x+5)^2+(y-7)^2=100$
D) $(x-8)^2+(y-3)^2=81$

18) Ends of a diameter: $(11, -15)$ and $(-1, -3)$

A) $(x-5)^2+(y+9)^2=72$
B) $(x+9)^2+(y+5)^2=72$
C) $(x+5)^2+(y+9)^2=72$
D) $(x+5)^2+(y-9)^2=72$

19) Ends of a diameter: $(3, -15)$ and $(11, 1)$

A) $(x-7)^2+(y+7)^2=80$
B) $(x-6)^2+(y-9)^2=80$
C) $(x+7)^2+(y+7)^2=6400$
D) $(x-7)^2+(y+7)^2=6400$

20) Ends of a diameter: $(0, -7)$ and $(0, -1)$

A) $x^2+(y-4)^2=81$
B) $x^2+(y+4)^2=9$
C) $(x+2)^2+(y-3)^2=81$
D) $x^2+(y+4)^2=1$

21) Ends of a diameter: $(5, 8)$ and $(-13, -14)$

A) $(x+4)^2+(y+3)^2=202$
B) $(x+4)^2+(y-3)^2=202$
C) $(x+3)^2+(y-4)^2=202$
D) $(x+4)^2+(y+3)^2=25$

22) Ends of a diameter: $(9, -13)$ and $(-4, 2)$

A) $\left(x+\frac{9}{2}\right)^2+\left(y-\frac{13}{2}\right)^2=36$
B) $\left(x-\frac{11}{2}\right)^2+\left(y+\frac{7}{2}\right)^2=9801$
C) $\left(x-\frac{5}{2}\right)^2+\left(y+\frac{11}{2}\right)^2=9801$
D) $\left(x-\frac{5}{2}\right)^2+\left(y+\frac{11}{2}\right)^2=\frac{197}{2}$

23) Ends of a diameter: $(-7, 0)$ and $(3, 12)$

A) $(x+2)^2+(y-6)^2=61$
B) $(x+6)^2+(y-3)^2=3721$
C) $(x+2)^2+(y-6)^2=3721$
D) $(x+2)^2+(y-6)^2=1$

24) Ends of a diameter: $(-8, -1)$ and $(-15, -5)$

A) $\left(x-\frac{23}{2}\right)^2+(y-3)^2=\frac{65}{4}$
B) $\left(x+\frac{23}{2}\right)^2+(y+3)^2=256$
C) $\left(x-\frac{23}{2}\right)^2+(y-3)^2=4$
D) $\left(x+\frac{23}{2}\right)^2+(y+3)^2=\frac{65}{4}$

Answers to Assignment (ID: 5)

1) D
2) A
3) D
4) D
5) C
6) B
7) C
8) A
9) A
10) D
11) C
12) B
13) C
14) D
15) C
16) A
17) A
18) A
19) A
20) B
21) A
22) D
23) A
24) D

Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(2, -11)$ and $(-8, -3)$

A) $(x-7)^2+(y-5)^2=41$
B) $(x+3)^2+(y+7)^2=1681$
C) $(x+3)^2+(y+7)^2=41$
D) $(x-3)^2+(y-7)^2=1681$

2) Ends of a diameter: $(-6, 0)$ and $(-4, 16)$

A) $(x-7)^2+(y-6)^2=4225$
B) $(x+5)^2+(y-8)^2=65$
C) $(x-8)^2+(y-5)^2=65$
D) $(x+8)^2+(y-5)^2=4225$

3) Ends of a diameter: $(0, -18)$ and $(2, -8)$

A) $(x+13)^2+(y-1)^2=26$
B) $(x-1)^2+(y+13)^2=26$
C) $(x-1)^2+(y+13)^2=676$
D) $(x+1)^2+(y-13)^2=26$

4) Ends of a diameter: $(18, 5)$ and $(0, 3)$

A) $(x+4)^2+(y+7)^2=82$
B) $(x+6)^2+(y-10)^2=6724$
C) $(x+4)^2+(y-9)^2=82$
D) $(x-9)^2+(y-4)^2=82$

5) Ends of a diameter: $(-10, 3)$ and $(10, 7)$

A) $x^2+(y+3)^2=104$
B) $(x+1)^2+(y-6)^2=104$
C) $(x-5)^2+(y+1)^2=104$
D) $x^2+(y-5)^2=104$

6) Ends of a diameter: $(3, 19)$ and $(-5, -17)$

A) $(x-1)^2+(y+1)^2=115600$
B) $(x+1)^2+(y-1)^2=64$
C) $(x+1)^2+(y-1)^2=340$
D) $(x+1)^2+(y-1)^2=115600$

7) Ends of a diameter: $(10, 11)$ and $(0, 15)$

A) $(x-5)^2+(y-13)^2=841$
B) $(x+6)^2+(y+12)^2=29$
C) $(x-5)^2+(y-13)^2=29$
D) $(x-13)^2+(y+5)^2=29$

8) Ends of a diameter: $(4, 1)$ and $(-8, -9)$

A) $(x+2)^2+(y+4)^2=3721$
B) $(x-4)^2+(y+2)^2=61$
C) $(x-6)^2+(y+1)^2=3721$
D) $(x+2)^2+(y+4)^2=61$

9) Ends of a diameter: $(6, -10)$ and $(-2, -4)$

A) $(x+4)^2 + (y-6)^2 = 9$
B) $(x+2)^2 + (y-7)^2 = 25$
C) $(x-2)^2 + (y+7)^2 = 1$
D) $(x-2)^2 + (y+7)^2 = 25$

10) Ends of a diameter: $(16, -5)$ and $(6, -15)$

A) $(x-11)^2 + (y+10)^2 = 50$
B) $(x-11)^2 + (y+10)^2 = 2500$
C) $(x-9)^2 + (y+9)^2 = 50$
D) $(x-10)^2 + (y-11)^2 = 50$

11) Ends of a diameter: $(6, 3)$ and $(16, 5)$

A) $(x+5)^2 + (y+11)^2 = 676$
B) $(x+10)^2 + (y+4)^2 = 9$
C) $(x-11)^2 + (y-4)^2 = 26$
D) $(x-11)^2 + (y-4)^2 = 676$

12) Ends of a diameter: $(-11, 11)$ and $(-5, 11)$

A) $(x-11)^2 + (y-8)^2 = 9$
B) $(x+11)^2 + (y+8)^2 = 81$
C) $(x-8)^2 + (y+11)^2 = 9$
D) $(x+8)^2 + (y-11)^2 = 9$

13) Ends of a diameter: $(0, -17)$ and $(-2, -19)$

A) $(x+1)^2 + (y+18)^2 = 2$
B) $x^2 + (y-17)^2 = 2$
C) $(x-1)^2 + (y+18)^2 = 4$
D) $(x+18)^2 + (y-1)^2 = 4$

14) Ends of a diameter: $(-4, 1)$ and $(-16, -1)$

A) $(x+10)^2 + y^2 = 37$
B) $(x-10)^2 + y^2 = 37$
C) $(x+1)^2 + (y-9)^2 = 1369$
D) $(x+10)^2 + y^2 = 1369$

15) Ends of a diameter: $(-3, -2)$ and $(-9, -6)$

A) $(x-4)^2 + (y+6)^2 = 169$
B) $(x-7)^2 + (y+4)^2 = 169$
C) $(x+6)^2 + (y+4)^2 = 13$
D) $(x-6)^2 + (y-4)^2 = 13$

16) Ends of a diameter: $(-16, -1)$ and $(2, 5)$

A) $(x+7)^2 + (y-2)^2 = 8100$
B) $(x+7)^2 + (y-2)^2 = 90$
C) $(x-7)^2 + (y-1)^2 = 90$
D) $(x-6)^2 + (y+4)^2 = 90$

17) Ends of a diameter: $(-9, 7)$ and $(7, -17)$

A) $(x-1)^2+(y-5)^2=208$

B) $(x+1)^2+(y+5)^2=208$

C) $(x-6)^2+(y-2)^2=208$

D) $(x-2)^2+(y+5)^2=208$

18) Ends of a diameter: $(-13, 0)$ and $(5, -2)$

A) $(x-4)^2+(y+1)^2=6724$

B) $(x+2)^2+(y-3)^2=82$

C) $(x+4)^2+(y+1)^2=82$

D) $(x+4)^2+(y-1)^2=82$

19) Ends of a diameter: $(-9, 2)$ and $(-11, -8)$

A) $(x-10)^2+(y+3)^2=26$

B) $(x-11)^2+(y-1)^2=676$

C) $(x+10)^2+(y+3)^2=26$

D) $(x+10)^2+(y-3)^2=26$

20) Ends of a diameter: $(-11, -8)$ and $(-15, -14)$

A) $(x-13)^2+(y-11)^2=13$

B) $(x+13)^2+(y+11)^2=13$

C) $(x-13)^2+(y+11)^2=169$

D) $(x-13)^2+(y-11)^2=169$

21) Ends of a diameter: $(-2, 8)$ and $(-2, 2)$

A) $(x+5)^2+(y-2)^2=9$

B) $(x-5)^2+(y-2)^2=9$

C) $(x-5)^2+(y-2)^2=81$

D) $(x+2)^2+(y-5)^2=9$

22) Ends of a diameter: $(13, 9)$ and $(4, 7)$

A) $\left(x+\frac{17}{2}\right)^2+(y+8)^2=\frac{85}{4}$

B) $(x+7)^2+\left(y+\frac{15}{2}\right)^2=\frac{85}{4}$

C) $\left(x-\frac{17}{2}\right)^2+(y-8)^2=\frac{85}{4}$

D) $\left(x+\frac{17}{2}\right)^2+(y-9)^2=\frac{85}{4}$

23) Ends of a diameter: $(-9, -2)$ and $(8, -4)$

A) $\left(x-\frac{1}{2}\right)^2+(y+3)^2=\frac{293}{4}$

B) $\left(x-\frac{1}{2}\right)^2+(y-3)^2=5329$

C) $\left(x+\frac{1}{2}\right)^2+(y+3)^2=\frac{293}{4}$

D) $(x+3)^2+\left(y-\frac{1}{2}\right)^2=\frac{293}{4}$

24) Ends of a diameter: $(-1, 1)$ and $(2, -18)$

A) $\left(x-\frac{1}{2}\right)^2+\left(y+\frac{17}{2}\right)^2=\frac{185}{2}$

B) $\left(x+\frac{17}{2}\right)^2+\left(y+\frac{1}{2}\right)^2=8464$

C) $\left(x+\frac{1}{2}\right)^2+\left(y-\frac{17}{2}\right)^2=\frac{185}{2}$

D) $\left(x-\frac{15}{2}\right)^2+\left(y-\frac{5}{2}\right)^2=8464$

Answers to Assignment (ID: 6)

1) C
2) B
3) B
4) D
5) D
6) C
7) C
8) D
9) D
10) A
11) C
12) D
13) A
14) A
15) C
16) B
17) B
18) C
19) C
20) B
21) D
22) C
23) C
24) A

Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(13, -17)$ and $(7, -9)$

A) $(x - 13)^2 + (y - 10)^2 = 25$
B) $(x + 10)^2 + (y + 13)^2 = 25$
C) $(x - 10)^2 + (y + 13)^2 = 25$
D) $(x + 11)^2 + (y + 12)^2 = 25$

2) Ends of a diameter: $(13, -10)$ and $(-1, 6)$

A) $(x - 6)^2 + (y + 2)^2 = 113$
B) $(x + 6)^2 + (y - 2)^2 = 113$
C) $(x + 5)^2 + (y - 1)^2 = 12769$
D) $(x - 6)^2 + (y + 2)^2 = 49$

3) Ends of a diameter: $(-6, 8)$ and $(-4, 12)$

A) $(x + 9)^2 + (y + 4)^2 = 5$
B) $(x + 5)^2 + (y - 10)^2 = 5$
C) $(x + 12)^2 + (y + 6)^2 = 5$
D) $(x - 8)^2 + (y - 4)^2 = 5$

4) Ends of a diameter: $(-14, 2)$ and $(-4, 16)$

A) $(x + 9)^2 + (y + 9)^2 = 74$
B) $(x + 9)^2 + (y - 9)^2 = 74$
C) $(x + 10)^2 + (y + 9)^2 = 74$
D) $(x + 9)^2 + (y - 9)^2 = 5476$

5) Ends of a diameter: $(2, 9)$ and $(-18, 3)$

A) $(x - 5)^2 + (y - 7)^2 = 109$
B) $(x + 6)^2 + (y - 8)^2 = 109$
C) $(x + 8)^2 + (y - 6)^2 = 11881$
D) $(x + 8)^2 + (y - 6)^2 = 109$

6) Ends of a diameter: $(6, -3)$ and $(-6, -9)$

A) $x^2 + (y + 6)^2 = 45$
B) $(x + 1)^2 + (y - 5)^2 = 45$
C) $(x - 5)^2 + y^2 = 4$
D) $(x - 2)^2 + (y + 8)^2 = 45$

7) Ends of a diameter: $(-5, 5)$ and $(1, 1)$

A) $(x + 3)^2 + (y - 2)^2 = 13$
B) $(x - 2)^2 + (y + 3)^2 = 169$
C) $(x + 2)^2 + (y - 3)^2 = 13$
D) $(x - 4)^2 + (y - 2)^2 = 1$

8) Ends of a diameter: $(15, -3)$ and $(1, -17)$

A) $(x - 8)^2 + (y + 10)^2 = 98$
B) $(x - 8)^2 + (y + 10)^2 = 9$
C) $(x - 10)^2 + (y + 8)^2 = 98$
D) $(x + 10)^2 + (y + 8)^2 = 98$

9) Ends of a diameter: $(-6, -5)$ and $(10, -7)$

A) $(x+2)^2+(y+6)^2=65$
B) $(x+6)^2+(y+2)^2=4225$
C) $(x-2)^2+(y+6)^2=65$
D) $(x-6)^2+(y-2)^2=65$

10) Ends of a diameter: $(-11, -13)$ and $(-11, -19)$

A) $(x+16)^2+(y-11)^2=9$
B) $(x+11)^2+(y+16)^2=9$
C) $(x-11)^2+(y-16)^2=9$
D) $(x+11)^2+(y-16)^2=9$

11) Ends of a diameter: $(-6, 16)$ and $(6, -12)$

A) $x^2+(y+2)^2=53824$
B) $x^2+(y-2)^2=232$
C) $(x-2)^2+y^2=232$
D) $x^2+(y+1)^2=232$

12) Ends of a diameter: $(-13, 11)$ and $(15, -5)$

A) $x^2+(y+1)^2=260$
B) $(x+1)^2+(y+3)^2=260$
C) $(x-1)^2+(y+3)^2=260$
D) $(x-1)^2+(y-3)^2=260$

13) Ends of a diameter: $(-3, -13)$ and $(-3, 3)$

A) $(x+3)^2+(y+5)^2=64$
B) $(x-3)^2+(y-3)^2=64$
C) $(x+3)^2+(y+5)^2=4096$
D) $(x-5)^2+(y-1)^2=64$

14) Ends of a diameter: $(-19, -12)$ and $(-13, -8)$

A) $(x+14)^2+(y-12)^2=9$
B) $(x-10)^2+(y-16)^2=1$
C) $(x+16)^2+(y+10)^2=13$
D) $(x+16)^2+(y+10)^2=169$

15) Ends of a diameter: $(19, 1)$ and $(19, 3)$

A) $(x-19)^2+(y-2)^2=4$
B) $(x+20)^2+(y-1)^2=1$
C) $(x+18)^2+(y-3)^2=4$
D) $(x-19)^2+(y-2)^2=1$

16) Ends of a diameter: $(-8, -14)$ and $(6, -4)$

A) $(x+1)^2+(y+9)^2=4$
B) $(x-9)^2+(y+1)^2=74$
C) $(x+1)^2+(y+9)^2=74$
D) $(x-7)^2+(y-1)^2=9$

17) Ends of a diameter: $(-6, -13)$ and $(-2, -15)$

A) $(x+15)^2+(y-3)^2=25$
B) $(x+4)^2+(y+14)^2=5$
C) $(x+4)^2+(y+14)^2=25$
D) $(x-14)^2+(y-4)^2=25$

18) Ends of a diameter: $(9, 4)$ and $(-5, 6)$

A) $(x-4)^2+(y+7)^2=50$
B) $(x+5)^2+(y-2)^2=16$
C) $(x-2)^2+(y+5)^2=50$
D) $(x-2)^2+(y-5)^2=50$

19) Ends of a diameter: $(7, 12)$ and $(15, 18)$

A) $(x-11)^2+(y+15)^2=25$
B) $(x-11)^2+(y-15)^2=1$
C) $(x-11)^2+(y-15)^2=25$
D) $(x-11)^2+(y-15)^2=625$

20) Ends of a diameter: $(14, 16)$ and $(14, 6)$

A) $(x-14)^2+(y-11)^2=625$
B) $(x-14)^2+(y-11)^2=16$
C) $(x+9)^2+(y-14)^2=25$
D) $(x-14)^2+(y-11)^2=25$

21) Ends of a diameter: $(3, 4)$ and $(5, -6)$

A) $(x-4)^2+(y+1)^2=26$
B) $(x-4)^2+(y+1)^2=676$
C) $(x+6)^2+(y+1)^2=26$
D) $(x+4)^2+(y-1)^2=26$

22) Ends of a diameter: $(13, -5)$ and $(-9, 15)$

A) $(x+5)^2+y^2=221$
B) $(x+4)^2+(y-3)^2=221$
C) $(x-2)^2+(y-5)^2=48841$
D) $(x-2)^2+(y-5)^2=221$

23) Ends of a diameter: $(5, -6)$ and $(11, 8)$

A) $(x+8)^2+(y+1)^2=58$
B) $(x-8)^2+(y-1)^2=58$
C) $(x+8)^2+(y-1)^2=3364$
D) $(x-8)^2+(y-1)^2=16$

24) Ends of a diameter: $(6, -2)$ and $(-4, -14)$

A) $(x-1)^2+(y+8)^2=3721$
B) $(x+1)^2+(y-8)^2=61$
C) $x^2+(y-8)^2=61$
D) $(x-1)^2+(y+8)^2=61$

Answers to Assignment (ID: 7)

1) C
2) A
3) B
4) B
5) D
6) A
7) C
8) A
9) C
10) B
11) B
12) D
13) A
14) C
15) D
16) C
17) B
18) D
19) C
20) D
21) A
22) D
23) B
24) D

Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(8, 18)$ and $(10, 16)$

A) $(x-9)^2+(y-17)^2=2$

B) $(x-9)^2+(y-17)^2=4$

C) $(x+9)^2+(y-17)^2=2$

D) $(x-19)^2+(y+8)^2=2$

2) Ends of a diameter: $(-5, 6)$ and $(3, 17)$

A) $(x+1)^2+\left(y-\frac{23}{2}\right)^2=\frac{185}{4}$

B) $(x-3)^2+\left(y+\frac{21}{2}\right)^2=\frac{185}{4}$

C) $(x+1)^2+\left(y-\frac{23}{2}\right)^2=2116$

D) $\left(x-\frac{23}{2}\right)^2+(y-1)^2=4$

3) Ends of a diameter: $(-11, -2)$ and $(-18, 4)$

A) $\left(x-\frac{29}{2}\right)^2+(y-1)^2=\frac{85}{4}$

B) $\left(x-\frac{33}{2}\right)^2+(y+2)^2=\frac{85}{4}$

C) $\left(x+\frac{29}{2}\right)^2+(y-1)^2=\frac{85}{4}$

D) $\left(x+\frac{29}{2}\right)^2+(y-1)^2=1$

4) Ends of a diameter: $(-7, -1)$ and $(9, 9)$

A) $(x+4)^2+(y-1)^2=89$

B) $(x-1)^2+(y-4)^2=7921$

C) $(x+3)^2+(y-1)^2=89$

D) $(x-1)^2+(y-4)^2=89$

5) Ends of a diameter: $(14, -15)$ and $(14, -6)$

A) $(x-14)^2+\left(y+\frac{21}{2}\right)^2=\frac{81}{4}$

B) $\left(x+\frac{19}{2}\right)^2+(y+13)^2=\frac{81}{4}$

C) $(x-14)^2+\left(y-\frac{21}{2}\right)^2=400$

D) $\left(x-\frac{23}{2}\right)^2+(y-15)^2=9$

6) Ends of a diameter: $(-6, 15)$ and $(-4, -13)$

A) $(x-1)^2+(y-5)^2=197$

B) $(x-1)^2+(y-5)^2=38809$

C) $(x+7)^2+(y+2)^2=197$

D) $(x+5)^2+(y-1)^2=197$

7) Ends of a diameter: $(-4, -8)$ and $(0, -6)$

A) $(x-2)^2+(y-9)^2=25$

B) $(x+2)^2+(y-7)^2=25$

C) $(x+3)^2+(y-5)^2=25$

D) $(x+2)^2+(y+7)^2=5$

8) Ends of a diameter: $(1, 12)$ and $(9, 12)$

A) $(x-5)^2+(y-12)^2=256$

B) $(x-5)^2+(y-12)^2=16$

C) $(x+4)^2+(y+14)^2=16$

D) $(x-5)^2+(y+12)^2=16$

9) Ends of a diameter: $(-15, -8)$ and $(-19, -8)$

A) $(x-8)^2+(y+17)^2=4$

B) $(x-6)^2+(y+17)^2=4$

C) $(x+17)^2+(y+8)^2=4$

D) $(x+17)^2+(y+8)^2=16$

10) Ends of a diameter: $(17, 2)$ and $(9, 0)$

A) $(x-12)^2+(y+2)^2=17$

B) $(x+13)^2+(y+1)^2=289$

C) $(x-13)^2+(y-1)^2=17$

D) $(x-13)^2+(y-1)^2=289$

11) Ends of a diameter: $(-3, 10)$ and $(-19, 12)$

A) $(x-11)^2+(y-13)^2=65$

B) $(x-11)^2+(y-11)^2=65$

C) $(x+11)^2+(y-11)^2=65$

D) $(x+11)^2+(y+11)^2=65$

12) Ends of a diameter: $(15, -1)$ and $(5, 7)$

A) $(x-10)^2+(y-3)^2=1681$

B) $(x+10)^2+(y+3)^2=41$

C) $(x-4)^2+(y+10)^2=41$

D) $(x-10)^2+(y-3)^2=41$

13) Ends of a diameter: $(-9, 7)$ and $(15, -1)$

A) $(x+2)^2+(y+1)^2=25600$

B) $(x-3)^2+(y-3)^2=160$

C) $(x-3)^2+(y-3)^2=25600$

D) $(x-3)^2+(y+4)^2=25600$

14) Ends of a diameter: $(-9, -14)$ and $(11, -3)$

A) $(x+1)^2+\left(y-\frac{17}{2}\right)^2=16900$

B) $(x-1)^2+\left(y+\frac{17}{2}\right)^2=\frac{521}{4}$

C) $\left(x-\frac{15}{2}\right)^2+(y+1)^2=\frac{521}{4}$

D) $(x-1)^2+\left(y+\frac{17}{2}\right)^2=16900$

15) Ends of a diameter: $(7, -7)$ and $(-7, -5)$

A) $(x-7)^2+(y+1)^2=50$

B) $x^2+(y-6)^2=9$

C) $x^2+(y+6)^2=50$

D) $(x-4)^2+(y+1)^2=50$

16) Ends of a diameter: $(0, 6)$ and $(0, -16)$

A) $x^2+(y+5)^2=121$

B) $x^2+(y-5)^2=121$

C) $(x-5)^2+y^2=121$

D) $(x+5)^2+(y-1)^2=121$

17) Ends of a diameter: $(-3, -13)$ and $(3, 11)$

A) $x^2 + (y+1)^2 = 23409$

B) $x^2 + (y-1)^2 = 153$

C) $(x-1)^2 + y^2 = 153$

D) $x^2 + (y+1)^2 = 153$

18) Ends of a diameter: $(5, -14)$ and $(-3, 4)$

A) $(x-1)^2 + (y+5)^2 = 9409$

B) $(x-5)^2 + (y+1)^2 = 97$

C) $(x-1)^2 + (y+5)^2 = 97$

D) $(x-5)^2 + (y-1)^2 = 97$

19) Ends of a diameter: $(-18, -12)$ and $(-14, -12)$

A) $(x+16)^2 + (y+12)^2 = 16$

B) $(x-12)^2 + (y+16)^2 = 4$

C) $(x+16)^2 + (y+12)^2 = 4$

D) $(x+14)^2 + (y-18)^2 = 16$

20) Ends of a diameter: $(-4, -5)$ and $(-4, -7)$

A) $(x+4)^2 + (y+6)^2 = 1$

B) $(x-4)^2 + (y+6)^2 = 1$

C) $(x-4)^2 + (y+6)^2 = 4$

D) $(x-4)^2 + (y-6)^2 = 9$

21) Ends of a diameter: $(-2, 13)$ and $(12, 2)$

A) $(x-5)^2 + \left(y - \frac{15}{2}\right)^2 = 6241$

B) $(x+5)^2 + \left(y - \frac{15}{2}\right)^2 = \frac{317}{4}$

C) $(x-5)^2 + \left(y - \frac{15}{2}\right)^2 = \frac{317}{4}$

D) $\left(x + \frac{15}{2}\right)^2 + (y-5)^2 = 6241$

22) Ends of a diameter: $(7, -8)$ and $(-9, -4)$

A) $(x+1)^2 + (y+6)^2 = 68$

B) $(x+1)^2 + (y+6)^2 = 4624$

C) $(x+6)^2 + (y-1)^2 = 4624$

D) $(x+1)^2 + (y-7)^2 = 68$

23) Ends of a diameter: $(16, -7)$ and $(-10, 11)$

A) $(x-3)^2 + (y-2)^2 = 250$

B) $(x+5)^2 + (y-2)^2 = 1$

C) $(x+2)^2 + (y-3)^2 = 250$

D) $(x+3)^2 + (y-2)^2 = 62500$

24) Ends of a diameter: $(-9, -1)$ and $(13, -3)$

A) $(x+2)^2 + (y-2)^2 = 14884$

B) $(x-2)^2 + (y+2)^2 = 14884$

C) $(x-2)^2 + (y+2)^2 = 122$

D) $(x+2)^2 + (y+2)^2 = 49$

Answers to Assignment (ID: 8)

1) A
2) A
3) C
4) D
5) A
6) D
7) D
8) B
9) C
10) C
11) C
12) D
13) B
14) B
15) C
16) A
17) D
18) C
19) C
20) A
21) C
22) A
23) A
24) C

Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(-4, 7)$ and $(-6, 7)$

A) $(x-7)^2+(y-5)^2=9$
B) $(x+3)^2+(y+8)^2=4$
C) $(x+5)^2+(y-7)^2=1$
D) $(x+5)^2+(y-7)^2=4$

2) Ends of a diameter: $(-14, -3)$ and $(-12, 3)$

A) $x^2+(y-13)^2=1$
B) $(x+13)^2+y^2=10$
C) $(x-13)^2+y^2=100$
D) $(x+13)^2+y^2=100$

3) Ends of a diameter: $(-3, 8)$ and $(-9, -4)$

A) $(x-6)^2+(y-2)^2=2025$
B) $(x+6)^2+(y-2)^2=45$
C) $(x+6)^2+(y+2)^2=2025$
D) $(x+3)^2+(y-8)^2=45$

4) Ends of a diameter: $(-5, 0)$ and $(-15, -14)$

A) $(x+10)^2+(y+7)^2=74$
B) $(x+10)^2+(y+7)^2=5476$
C) $(x+10)^2+(y-7)^2=74$
D) $(x-7)^2+(y+10)^2=74$

5) Ends of a diameter: $(8, -4)$ and $(-2, -2)$

A) $(x-3)^2+(y+3)^2=26$
B) $(x-3)^2+(y+3)^2=676$
C) $(x-5)^2+(y-4)^2=676$
D) $(x-3)^2+(y-3)^2=26$

6) Ends of a diameter: $(6, -7)$ and $(-16, 1)$

A) $(x-3)^2+(y-5)^2=137$
B) $(x+5)^2+(y+3)^2=121$
C) $(x+5)^2+(y+3)^2=137$
D) $(x+5)^2+(y+3)^2=18769$

7) Ends of a diameter: $(11, 10)$ and $(11, 4)$

A) $(x-7)^2+(y+11)^2=1$
B) $(x-7)^2+(y+11)^2=81$
C) $(x-11)^2+(y-7)^2=9$
D) $(x+8)^2+(y+11)^2=9$

8) Ends of a diameter: $(5, 2)$ and $(-17, -8)$

A) $(x-3)^2+(y-6)^2=146$
B) $(x+6)^2+(y+3)^2=146$
C) $(x+3)^2+(y-6)^2=1$
D) $(x-8)^2+(y+4)^2=21316$

9) Ends of a diameter: $(-13, -8)$ and $(-17, 0)$

A) $(x+15)^2+(y+4)^2=20$

B) $(x+15)^2+(y+4)^2=400$

C) $(x-15)^2+(y-4)^2=20$

D) $(x+5)^2+(y-16)^2=20$

10) Ends of a diameter: $(8, -5)$ and $(1, 19)$

A) $(x-7)^2+\left(y+\frac{9}{2}\right)^2=\frac{625}{4}$

B) $\left(x-\frac{9}{2}\right)^2+(y-7)^2=\frac{625}{4}$

C) $\left(x-\frac{9}{2}\right)^2+(y-7)^2=24336$

D) $\left(x+\frac{9}{2}\right)^2+(y+7)^2=\frac{625}{4}$

11) Ends of a diameter: $(5, -10)$ and $(-15, 12)$

A) $(x+5)^2+(y-1)^2=48841$

B) $x^2+(y+5)^2=221$

C) $(x-1)^2+(y-5)^2=221$

D) $(x+5)^2+(y-1)^2=221$

12) Ends of a diameter: $(8, 18)$ and $(10, 0)$

A) $(x-9)^2+(y-9)^2=6724$

B) $(x-9)^2+(y-9)^2=82$

C) $(x+9)^2+(y-7)^2=6724$

D) $(x+10)^2+(y-7)^2=9$

13) Ends of a diameter: $(-10, 17)$ and $(-13, 6)$

A) $\left(x-\frac{27}{2}\right)^2+\left(y-\frac{25}{2}\right)^2=1$

B) $\left(x+\frac{23}{2}\right)^2+\left(y-\frac{23}{2}\right)^2=1$

C) $\left(x-\frac{23}{2}\right)^2+\left(y-\frac{23}{2}\right)^2=\frac{65}{2}$

D) $\left(x+\frac{23}{2}\right)^2+\left(y-\frac{23}{2}\right)^2=\frac{65}{2}$

14) Ends of a diameter: $(4, -13)$ and $(-9, -6)$

A) $\left(x+\frac{19}{2}\right)^2+\left(y-\frac{5}{2}\right)^2=\frac{109}{2}$

B) $\left(x-\frac{5}{2}\right)^2+\left(y-\frac{19}{2}\right)^2=\frac{109}{2}$

C) $\left(x+\frac{5}{2}\right)^2+\left(y+\frac{19}{2}\right)^2=3025$

D) $\left(x+\frac{5}{2}\right)^2+\left(y+\frac{19}{2}\right)^2=\frac{109}{2}$

15) Ends of a diameter: $(11, 2)$ and $(-9, 10)$

A) $(x+6)^2+y^2=116$

B) $(x+6)^2+(y+1)^2=116$

C) $(x-1)^2+(y-6)^2=116$

D) $(x-1)^2+(y+7)^2=49$

16) Ends of a diameter: $(-9, -14)$ and $(9, 14)$

A) $x^2+y^2=277$

B) $(x-2)^2+(y-1)^2=76729$

C) $(x-2)^2+y^2=277$

D) $(x+2)^2+(y-2)^2=76729$

17) Ends of a diameter: $(-3, -17)$ and $(-11, -1)$

A) $(x+7)^2 + (y+9)^2 = 80$

B) $(x-7)^2 + (y+10)^2 = 80$

C) $(x+7)^2 + (y+9)^2 = 49$

D) $(x+7)^2 + (y-9)^2 = 80$

18) Ends of a diameter: $(16, 12)$ and $(2, 10)$

A) $(x+9)^2 + (y-11)^2 = 50$

B) $(x-11)^2 + (y+9)^2 = 50$

C) $(x-9)^2 + (y-11)^2 = 50$

D) $(x+11)^2 + (y+9)^2 = 50$

19) Ends of a diameter: $(-15, 0)$ and $(19, 0)$

A) $(x-2)^2 + y^2 = 289$

B) $(x+2)^2 + y^2 = 289$

C) $(x-3)^2 + (y+2)^2 = 289$

D) $(x-3)^2 + y^2 = 289$

20) Ends of a diameter: $(0, 11)$ and $(-11, 9)$

A) $\left(x + \frac{11}{2}\right)^2 + (y-10)^2 = 961$

B) $\left(x + \frac{11}{2}\right)^2 + (y-10)^2 = \frac{125}{4}$

C) $\left(x + \frac{11}{2}\right)^2 + \left(y - \frac{11}{2}\right)^2 \equiv 16$

D) $(x-10)^2 +$

21) Ends of a diameter: $(-11, -2)$ and $(-11, 10)$

A) $(x-11)^2 + (y-4)^2 = 1296$

B) $(x-11)^2 + (y+4)^2 = 1296$

C) $(x-11)^2 + (y+2)^2 = 36$

D) $(x+11)^2 + (y-4)^2 = 36$

22) Ends of a diameter: $(13, -3)$ and $(-5, -5)$

A) $(x-4)^2 + (y+4)^2 = 82$

B) $(x+6)^2 + (y+4)^2 = 82$

C) $(x+3)^2 + (y+4)^2 = 82$

D) $(x+4)^2 + (y-4)^2 = 82$

23) Ends of a diameter: $(17, -17)$ and $(9, -11)$

A) $(x+13)^2 + (y-14)^2 = 25$

B) $(x-13)^2 + (y+14)^2 = 25$

C) $(x-13)^2 + (y-14)^2 = 25$

D) $(x+14)^2 + (y+12)^2 = 25$

24) Ends of a diameter: $(6, 14)$ and $(-4, -2)$

A) $(x-1)^2 + (y-6)^2 = 7921$

B) $(x+4)^2 + (y-1)^2 = 89$

C) $(x-1)^2 + (y-6)^2 = 89$

D) $(x+5)^2 + (y+1)^2 = 89$

Answers to Assignment (ID: 9)

1) C
2) B
3) B
4) A
5) A
6) C
7) C
8) B
9) A
10) B
11) D
12) B
13) D
14) D
15) C
16) A
17) A
18) C
19) A
20) B
21) D
22) A
23) B
24) C

Geometry Name_____

Assignment

Date_____ Period____

Use the information provided to write the equation of each circle.

1) Ends of a diameter: $(9, -10)$ and $(-15, 2)$

A) $(x+3)^2+(y-5)^2=180$
B) $(x+3)^2+(y+4)^2=32400$
C) $(x+3)^2+(y+4)^2=81$
D) $(x+3)^2+(y+4)^2=180$

2) Ends of a diameter: $(-17, 5)$ and $(11, -9)$

A) $(x+3)^2+(y+2)^2=245$
B) $(x+3)^2+(y-4)^2=245$
C) $(x+2)^2+(y-3)^2=49$
D) $(x+3)^2+(y+2)^2=60025$

3) Ends of a diameter: $(-17, 0)$ and $(-11, 4)$

A) $(x+14)^2+(y-2)^2=13$
B) $(x+14)^2+(y+2)^2=13$
C) $(x-2)^2+(y-14)^2=169$
D) $(x+14)^2+(y-2)^2=169$

4) Ends of a diameter: $(0, 6)$ and $(-6, 4)$

A) $(x-3)^2+(y+5)^2=10$
B) $(x+3)^2+(y-5)^2=10$
C) $(x+5)^2+(y+3)^2=10$
D) $(x+2)^2+(y+6)^2=100$

5) Ends of a diameter: $(8, 0)$ and $(-16, -6)$

A) $(x-4)^2+(y-3)^2=153$
B) $(x-2)^2+(y-2)^2=153$
C) $(x+4)^2+(y+3)^2=153$
D) $(x+3)^2+(y-4)^2=153$

6) Ends of a diameter: $(18, -13)$ and $(4, -3)$

A) $(x+10)^2+(y+13)^2=74$
B) $(x-11)^2+(y+8)^2=49$
C) $(x-7)^2+(y-11)^2=74$
D) $(x-11)^2+(y+8)^2=74$

7) Ends of a diameter: $(-16, 3)$ and $(6, 5)$

A) $(x+4)^2+(y-5)^2=122$
B) $(x-4)^2+(y-5)^2=122$
C) $(x+5)^2+(y-4)^2=122$
D) $(x-5)^2+(y+4)^2=122$

8) Ends of a diameter: $(-7, 15)$ and $(7, 9)$

A) $(x-12)^2+y^2=16$
B) $x^2+(y-12)^2=16$
C) $(x+1)^2+(y-13)^2=1$
D) $x^2+(y-12)^2=58$

9) Ends of a diameter: $(-5, 19)$ and $(1, 7)$

A) $(x-2)^2+(y+13)^2=45$

B) $(x+13)^2+(y+2)^2=45$

C) $(x+2)^2+(y-13)^2=2025$

D) $(x+2)^2+(y-13)^2=45$

10) Ends of a diameter: $(-17, 2)$ and $(7, -10)$

A) $(x-5)^2+(y+4)^2=180$

B) $(x-7)^2+(y+4)^2=64$

C) $(x+5)^2+(y+4)^2=180$

D) $(x+2)^2+(y-5)^2=32400$

11) Ends of a diameter: $(4, -12)$ and $(0, 2)$

A) $(x-2)^2+(y+5)^2=2809$

B) $(x+2)^2+(y+5)^2=2809$

C) $(x-2)^2+(y+5)^2=53$

D) $(x-5)^2+(y+2)^2=53$

12) Ends of a diameter: $(9, 9)$ and $(-1, 7)$

A) $(x-4)^2+(y-8)^2=4$

B) $(x-4)^2+(y-8)^2=26$

C) $(x-5)^2+(y+6)^2=26$

D) $(x+2)^2+(y-9)^2=16$

13) Ends of a diameter: $(-14, 2)$ and $(6, -14)$

A) $(x+4)^2+(y+6)^2=164$

B) $(x+4)^2+(y+6)^2=26896$

C) $(x-3)^2+(y-6)^2=164$

D) $(x+4)^2+(y-6)^2=26896$

14) Ends of a diameter: $(12, 12)$ and $(-8, 0)$

A) $(x-2)^2+(y+6)^2=136$

B) $(x+6)^2+(y+2)^2=136$

C) $(x-2)^2+(y-6)^2=136$

D) $(x-2)^2+(y-6)^2=18496$

15) Ends of a diameter: $(-18, -8)$ and $(0, -10)$

A) $(x+8)^2+(y-8)^2=82$

B) $(x-9)^2+(y+9)^2=82$

C) $(x+9)^2+(y+9)^2=82$

D) $(x+9)^2+(y+9)^2=6724$

16) Ends of a diameter: $(7, 0)$ and $(-1, -1)$

A) $(x+4)^2+\left(y-\frac{3}{2}\right)^2=\frac{65}{4}$

B) $(x-3)^2+\left(y+\frac{1}{2}\right)^2=9$

C) $\left(x-\frac{3}{2}\right)^2+(y-1)^2=\frac{65}{4}$

D) $(x-3)^2+\left(y+\frac{1}{2}\right)^2=\frac{65}{4}$

17) Ends of a diameter: $(0, 9)$ and $(4, -17)$

A) $(x-2)^2+(y+4)^2=173$

B) $(x-6)^2+(y-2)^2=173$

C) $(x-2)^2+(y+4)^2=36$

D) $x^2+(y-3)^2=173$

18) Ends of a diameter: $(5, 9)$ and $(8, 10)$

A) $\left(x+\frac{13}{2}\right)^2+\left(y+\frac{19}{2}\right)^2=\frac{5}{2}$

B) $\left(x-\frac{13}{2}\right)^2+\left(y-\frac{19}{2}\right)^2=\frac{5}{2}$

C) $\left(x-\frac{13}{2}\right)^2+\left(y+\frac{19}{2}\right)^2=\frac{5}{2}$

D) $\left(x+\frac{13}{2}\right)^2+\left(y-\frac{19}{2}\right)^2=\frac{5}{2}$

19) Ends of a diameter: $(13, 0)$ and $(11, -4)$

A) $(x+2)^2+(y+12)^2=5$

B) $(x-12)^2+(y+2)^2=25$

C) $(x-2)^2+(y-12)^2=5$

D) $(x-12)^2+(y+2)^2=5$

20) Ends of a diameter: $(12, 11)$ and $(-7, -4)$

A) $\left(x-\frac{5}{2}\right)^2+\left(y-\frac{7}{2}\right)^2=21609$

B) $\left(x-\frac{5}{2}\right)^2+\left(y-\frac{7}{2}\right)^2=\frac{293}{2}$

C) $\left(x+\frac{7}{2}\right)^2+\left(y-\frac{5}{2}\right)^2=\frac{293}{2}$

D) $\left(x+\frac{5}{2}\right)^2+\left(y+\frac{7}{2}\right)^2=\frac{293}{2}$

21) Ends of a diameter: $(-3, 7)$ and $(14, -7)$

A) $x^2+\left(y-\frac{7}{2}\right)^2=\frac{485}{4}$

B) $\left(x-\frac{11}{2}\right)^2+y^2=\frac{485}{4}$

C) $x^2+\left(y+\frac{11}{2}\right)^2=\frac{485}{4}$

D) $\left(x-\frac{11}{2}\right)^2+y^2=14641$

22) Ends of a diameter: $(-3, 13)$ and $(3, -9)$

A) $(x-2)^2+y^2=130$

B) $x^2+(y-2)^2=130$

C) $(x+2)^2+(y-4)^2=130$

D) $(x+2)^2+y^2=130$

23) Ends of a diameter: $(11, 7)$ and $(9, 13)$

A) $(x-10)^2+(y+10)^2=10$

B) $(x-10)^2+(y-10)^2=100$

C) $(x+10)^2+(y+12)^2=10$

D) $(x-10)^2+(y-10)^2=10$

24) Ends of a diameter: $(2, -12)$ and $(6, -8)$

A) $(x-4)^2+(y+10)^2=4$

B) $(x-4)^2+(y+10)^2=8$

C) $(x+2)^2+(y-10)^2=8$

D) $(x-10)^2+(y-4)^2=8$

Answers to Assignment (ID: 10)

1) D
2) A
3) A
4) B
5) C
6) D
7) C
8) D
9) D
10) C
11) C
12) B
13) A
14) C
15) C
16) D
17) A
18) B
19) D
20) B
21) B
22) B
23) D
24) B