

Assignment

Date _____ Period _____

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

1) Center: $(-9, 15)$
Radius: 2

2) Center: $(10, -5)$
Radius: 8

3) Center: $(15, -5)$
Circumference: 6π

4) Center: $(-5, 9)$
Circumference: 10π

5) Center: $(-9, 6)$
Area: 100π

6) Center: $(10, 11)$
Area: 40π

7) Center: $(-11, -10)$
Area: 4π

8) Center: $(4, 12)$
Area: 25π

Assignment

Date _____ Period _____

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

- 1) Center: $(-9, 15)$
Radius: 2

$$(x + 9)^2 + (y - 15)^2 = 4$$

- 2) Center: $(10, -5)$
Radius: 8

$$(x - 10)^2 + (y + 5)^2 = 64$$

- 3) Center: $(15, -5)$
Circumference: 6π

$$(x - 15)^2 + (y + 5)^2 = 9$$

- 4) Center: $(-5, 9)$
Circumference: 10π

$$(x + 5)^2 + (y - 9)^2 = 25$$

- 5) Center: $(-9, 6)$
Area: 100π

$$(x + 9)^2 + (y - 6)^2 = 100$$

- 6) Center: $(10, 11)$
Area: 40π

$$(x - 10)^2 + (y - 11)^2 = 40$$

- 7) Center: $(-11, -10)$
Area: 4π

$$(x + 11)^2 + (y + 10)^2 = 4$$

- 8) Center: $(4, 12)$
Area: 25π

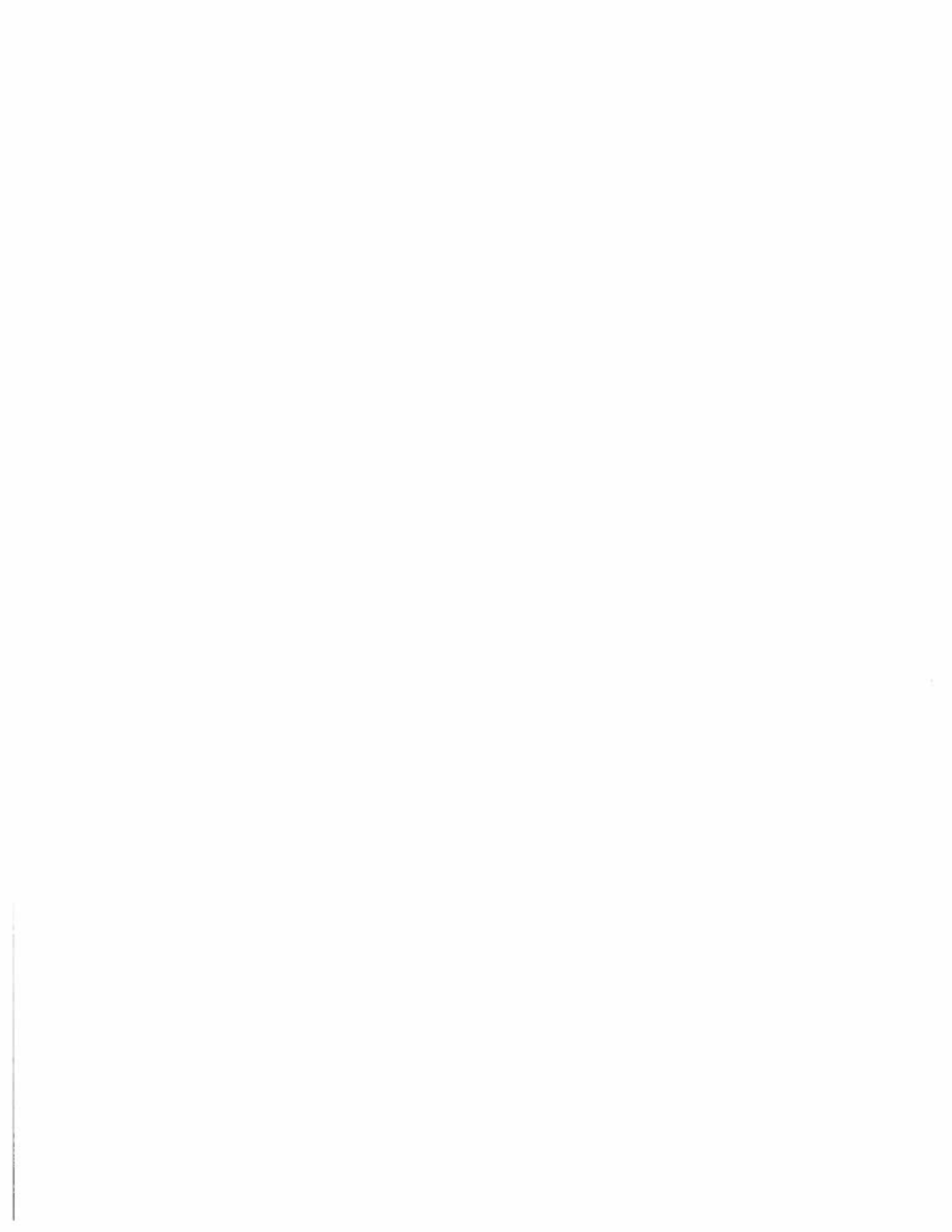
$$(x - 4)^2 + (y - 12)^2 = 25$$

a. $x^2 + 8x + y^2 - 4y = 5$

b. $x^2 - 10x + y^2 + 6y - 2 = 0$

c. $14x + 6y + 22 = -x^2 - y^2$

d. $x^2 + y^2 + 12x = 13$



Assignment

Date _____ Period _____

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

1) Ends of a diameter: $(10, 3)$ and $(-2, 17)$ 2) Ends of a diameter: $(18, -5)$ and $(12, -13)$ 3) Ends of a diameter: $(6, 4)$ and $(6, 14)$ 4) Ends of a diameter: $(-8, 11)$ and $(8, -7)$

Assignment

Date _____ Period _____

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

1) Ends of a diameter: (10, 3) and (-2, 17)

$$(x - 4)^2 + (y - 10)^2 = 85$$

2) Ends of a diameter: (18, -5) and (12, -13)

$$(x - 15)^2 + (y + 9)^2 = 25$$

3) Ends of a diameter: (6, 4) and (6, 14)

$$(x - 6)^2 + (y - 9)^2 = 25$$

4) Ends of a diameter: (-8, 11) and (8, -7)

$$x^2 + (y - 2)^2 = 145$$