

## 7.6 Practice

Date \_\_\_\_\_

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

1) Center:  $(17, -1)$   
Point on Circle:  $(19, -1)$

2) Center:  $(-12, 0)$   
Point on Circle:  $(-6, 2)$

3) Center:  $(-17, -3)$   
Point on Circle:  $(-15, -3)$

4) Center:  $(2, 3)$   
Point on Circle:  $(18, 3)$

5) Center:  $(15, -10)$   
Point on Circle:  $(11, -10)$

6) Center:  $(7, -10)$   
Point on Circle:  $(5, -3)$

7) Center:  $(-14, 10)$   
Point on Circle:  $(-14, 8)$

8) Center:  $(-6, -7)$   
Point on Circle:  $(-7, -12)$

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

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

11) Ends of a diameter:  $(-12, 1)$  and  $(-12, 3)$

12) Ends of a diameter:  $(-13, -16)$  and  $(-9, -4)$

13) Ends of a diameter:  $(-6, -1)$  and  $(-12, 17)$

14) Ends of a diameter:  $(-14, -15)$  and  $(2, -3)$

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

16) Ends of a diameter:  $(6, -4)$  and  $(-14, 12)$

## 7.6 Practice

Date \_\_\_\_\_

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

- 1) Center:  $(17, -1)$   
Point on Circle:  $(19, -1)$

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

- 2) Center:  $(-12, 0)$   
Point on Circle:  $(-6, 2)$

$$(x + 12)^2 + y^2 = 40$$

- 3) Center:  $(-17, -3)$   
Point on Circle:  $(-15, -3)$

$$(x + 17)^2 + (y + 3)^2 = 4$$

- 4) Center:  $(2, 3)$   
Point on Circle:  $(18, 3)$

$$(x - 2)^2 + (y - 3)^2 = 256$$

- 5) Center:  $(15, -10)$   
Point on Circle:  $(11, -10)$

$$(x - 15)^2 + (y + 10)^2 = 16$$

- 6) Center:  $(7, -10)$   
Point on Circle:  $(5, -3)$

$$(x - 7)^2 + (y + 10)^2 = 53$$

- 7) Center:  $(-14, 10)$   
Point on Circle:  $(-14, 8)$

$$(x + 14)^2 + (y - 10)^2 = 4$$

- 8) Center:  $(-6, -7)$   
Point on Circle:  $(-7, -12)$

$$(x + 6)^2 + (y + 7)^2 = 26$$

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

$$(x + 8)^2 + (y + 5)^2 = 16$$

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

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

11) Ends of a diameter:  $(-12, 1)$  and  $(-12, 3)$

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

12) Ends of a diameter:  $(-13, -16)$  and  $(-9, -4)$

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

13) Ends of a diameter:  $(-6, -1)$  and  $(-12, 17)$

$$(x + 9)^2 + (y - 8)^2 = 90$$

14) Ends of a diameter:  $(-14, -15)$  and  $(2, -3)$

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

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

$$(x + 2)^2 + (y - 2)^2 = 61$$

16) Ends of a diameter:  $(6, -4)$  and  $(-14, 12)$

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