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Lesson 7.4

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

1) Center: $(0, 0)$
Radius: 19

2) Center: $(0, 0)$
Radius: 3

3) Center: $(0, 0)$
Radius: 14

4) Center: $(0, 0)$
Radius: $\sqrt{9}$

Identify the center and radius of each.

5) $x^2 + y^2 = 100$

6) $x^2 + y^2 = 11^2$

7) $x^2 + y^2 = 45$

8) $x^2 + y^2 = 98$

Determine if the point is On the Cirlce, Inside the Circle, or Outside of the Circle.

9) $x^2 + y^2 = 49$ Point = (0,5)

10) $x^2 + y^2 = 16$ point = (4,2)

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11) $x^2 + y^2 = 9$ point = (-3,0)

12) $(x-2)^2 + (y+3)^2 = 4$ point (3, -1)

Factor the quadratics.

13) $x^2 + 5x + 4$

14) $x^2 + 9x + 14$

15) $x^2 - 8x + 12$

16) $2x^2 + 7x + 3$

17) $5x^2 - 7x + 2$

18) $3x^2 + 17x + 10$

19) $7x^2 - 4x - 3$

20) $8x^2 - 10x - 3$

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