11-1 Circles $(x - h)^2 + (y - k)^2 = r^2$

Name _____

Give the center of each circle and the radius defined by each given equation.

1. $(x - 4)^2 + (y - 2)^2 = 25$ Center = _____ Radius = _____
2. $(x + 3)^2 + (y - 1)^2 = 16$ Center = _____ Radius = _____
3. $(x - 1)^2 + (y + 7)^2 = 81$ Center = _____ Radius = _____
4. $x^2 + (y - 2)^2 = 4$ Center = _____ Radius = _____
5. $(x - 9)^2 + y^2 = 1$ Center = _____ Radius = _____
6. $(x - 2)^2 + (y + 2)^2 = 9$ Center = _____ Radius = _____
7. $(x - 1)^2 + (y - 1)^2 = 25$ Center = _____ Radius = _____
8. $x^2 + y^2 = 49$ Center = _____ Radius = _____
9. $x^2 + (y + 8)^2 = 121$ Center = _____ Radius = _____
10. $(x + 1)^2 + (y - 1)^2 = 100$ Center = _____ Radius = _____

Give the equation of the circle that has the given center and given radius.

11. Center = (2, 5) Radius = 3 Equation = _____
12. Center = (-1, 2) Radius = 2 Equation = _____
13. Center = (0, -3) Radius = 7 Equation = _____
14. Center = (2, -7) Radius = 12 Equation = _____
15. Center = (5, 5) Radius = 6 Equation = _____
16. Center = (0, 5) Radius = 9 Equation = _____
17. Center = (1, -4) Radius = 2 Equation = _____
18. Center = (0, 0) Radius = 1 Equation = _____
19. Center = (2, 0) Radius = 8 Equation = _____

20. Center = (1, -1) Radius = 1 Equation = _____