

MORE PRACTICE: Circles

Find the center and radius of the given circle:

1. $(x - 1)^2 + (y - 6)^2 = 9$

2. $(x - 5)^2 + (y + 3)^2 = 49$

3. $(x + 2)^2 + (y + 4)^2 = 11$

4. $y^2 = 15 - x^2$

5. $(x + 2.4)^2 + (y - 3.34)^2 + 20 = 84$

Write an equation for the circle that satisfies the given conditions:

6. center = (2, 4) and radius = 3

7. center = (-1, 0) and radius = $\sqrt{54}$

8. center = (4, -2) and goes through the point (4, 5)

9. endpoints of the diameter are (3, -5) and (-1, 1)

10. endpoints of the diameter are (-6, -3) and (-1, 2)