Lesson 10.7 Practice: Circles in the Coordinate Plane

School Launch · Geometry · Unit 10: Circles · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Write the equation of the circle with center $(-5, -4)$ and radius 10. EASY

2. Write the equation of the circle with center $(-3, 5)$ and radius 6. EASY

3. Write the equation of the circle with center $(-1, 8)$ and radius 6. EASY

4. Find the center and radius of $x^2 - 6x + y^2 - 12y - 19 = 0$. MEDIUM

5. Find the center and radius of $x^2 + 16x + y^2 + 12y + 64 = 0$. MEDIUM

6. Find the center and radius of $x^2 + 8x + y^2 - 2y - 64 = 0$. MEDIUM

7. Find the center and radius of $x^2 - 4x + y^2 - 4y - 92 = 0$. MEDIUM

8. Find the center and radius of $x^2 - 8x + y^2 - 6y = 0$. HARD

9. Find the center and radius of $x^2 + y^2 - 12y - 28 = 0$. HARD

10. Find the center and radius of $x^2 - 10x + y^2 + 4y - 52 = 0$. HARD