

Distance and Midpoint Review

Find the distance between each pair of points.

1) $(-6, 3), (-4, 5)$

2) $(-4, -5), (3, -8)$

3) $(-7, 3), (-2, -4)$

4) $(0, 3), (5, 8)$

5) $(4, 2), (7, -4)$

6) $(-1, -4), (-4, -1)$

Find the distance between each pair of points. Round your answer to 2 decimal places, if necessary.

7) $(1.7, -4.6), (-8, -2.64)$

8) $(-1, 7.1), (-3.2, -7.3)$

Find the midpoint of the line segment with the given endpoints.

9) $(8, 7), (10, -10)$

10) $(10, 6), (-8, 8)$

11) $\left(-\frac{1}{8}, 1\right), \left(2\frac{7}{8}, 2\frac{1}{3}\right)$

12) $\left(-9, \frac{1}{6}\right), \left(-\frac{5}{6}, 2\frac{5}{6}\right)$

13) $(9.3, -1.8), (-9.4, 7.7)$

14) $(-0.35, 2.6), (0.2, -5.8)$

Circles Review

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

1) Center: $(0, 0)$
Radius: 8

2) Center: $(0, 0)$
Radius: 7

3) Center: $(0, 0)$
Radius: 9

4) Center: $(0, 0)$
Radius: 6

5) Center: $(0, 0)$
Radius: $2\sqrt{22}$

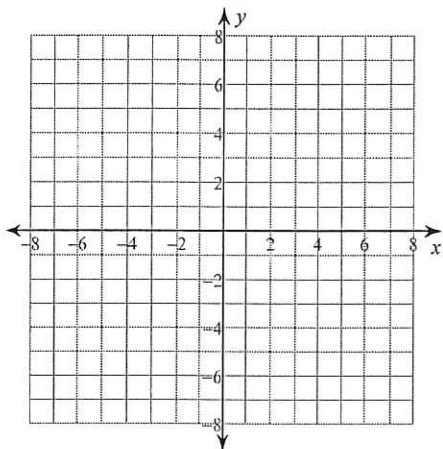
6) Center: $(0, 0)$
Radius: 8

7) Center: $(0, 0)$
Point on Circle: $(-3, 10)$

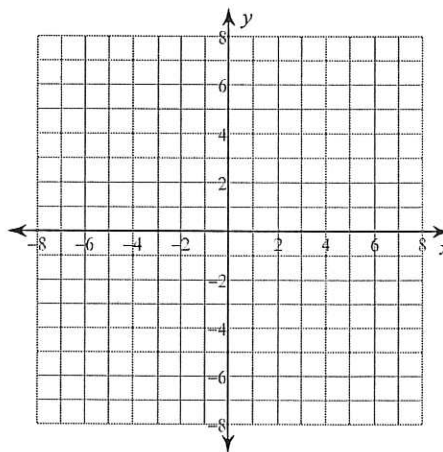
8) Center: $(0, 0)$
Point on Circle: $(0, -12)$

Identify the center and radius of each. Then sketch the graph.

9) $x^2 + y^2 = 25$



10) $x^2 + y^2 = 1$



Given the equation of a circle, name the center and radius.

11) $x^2 + y^2 = 169$

12) $x^2 + y^2 = 304$