Solving Circle Equations

Name:

Solve each problem. Round to two decimal places.

1) x value of 5 and radius of 8. Find the value of y.

2) y value of 2 and x value of 6.71. Find the radius.

3) y value of 5 and x value of 4.90. Find the radius.

4) x value of 5 and radius of 7. Find the value of y.

5) y value of 4 and x value of 4.47. Find the radius.

6) y value of 4 and x value of 4.47. Find the radius.

7) x value of 2 and y value of 4. Find the radius.

8) y value of 5 and x value of 7.48. Find the radius.

9) y value of 3 and x value of 7.42. Find the radius.

10) y value of 2 and x value of 9.80. Find the radius.

11) x value of 5 and radius of 10. Find the value of y.

12) y value of 2 and x value of 6.71. Find the radius.

13) y value of 5 and x value of 7.48. Find the radius.

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____

1-10	92	85	77	69	62	54	46	38	31	23
11-13	15	8	0							

Solve each problem. Round to two decimal places.

1) x value of 5 and radius of 8. Find the value of y.
$y^2 = 8^2 - 5^2$
$y = \pm\sqrt{39}$

2) y value of 2 and x value of 6.71. Find the radius.
$x^2 = 7^2 - 2^2$
$x = \pm\sqrt{45}$

3) y value of 5 and x value of 4.90. Find the radius.
$x^2 = 7^2 - 5^2$
$x = \pm\sqrt{24}$

4) x value of 5 and radius of 7. Find the value of y.
$y^2 = 7^2 - 5^2$
$y = \pm\sqrt{24}$

5) y value of 4 and x value of 4.47. Find the radius.
$x^2 = 6^2 - 4^2$
$x = \pm\sqrt{20}$

6) y value of 4 and x value of 4.47. Find the radius.
$x^2 = 6^2 - 4^2$
$x = \pm\sqrt{20}$

7) x value of 2 and y value of 4. Find the radius.
$r^2 = 2^2 + 4^2$
$r = \pm\sqrt{10}$

8) y value of 5 and x value of 7.48. Find the radius.
$x^2 = 9^2 - 5^2$
$x = \pm\sqrt{56}$

9) y value of 3 and x value of 7.42. Find the radius.
$x^2 = 8^2 - 3^2$
$x = \pm\sqrt{55}$

10) y value of 2 and x value of 9.80. Find the radius.
$x^2 = 10^2 - 2^2$
$x = \pm\sqrt{96}$

11) x value of 5 and radius of 10. Find the value of y.
$y^2 = 10^2 - 5^2$
$y = \pm\sqrt{75}$

12) y value of 2 and x value of 6.71. Find the radius.
$x^2 = 7^2 - 2^2$
$x = \pm\sqrt{45}$

13) y value of 5 and x value of 7.48. Find the radius.
$x^2 = 9^2 - 5^2$
$x = \pm\sqrt{56}$

Answers

1. **±6.24**
2. **±6.71**
3. **±4.90**
4. **±4.90**
5. **±4.47**
6. **±4.47**
7. **±4.47**
8. **±7.48**
9. **±7.42**
10. **±9.80**
11. **±8.66**
12. **±6.71**
13. **±7.48**

1-10	92	85	77	69	62	54	46	38	31	23
11-13	15	8	0							