Solving Circle Equations

Name:

Solve each problem. Round to two decimal places.

1) y value of 2 and x value of 5.66. Find the radius.

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

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

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

5) y value of 5 and x value of 3.32. Find the radius.

6) y value of 3 and x value of 6.32. Find the radius.

7) x value of 2 and radius of 9. Find the value of y.

8) y value of 4 and x value of 5.74. Find the radius.

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

10) y value of 2 and x value of 8.77. Find the radius.

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

12) y value of 3 and x value of 9.54. Find the radius.

13) x value of 4 and radius of 9. Find the value of y.

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) y value of 2 and x value of 5.66. Find the radius.
$x^2 = 6^2 - 2^2$
$x = \pm\sqrt{32}$

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

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

4) x value of 3 and y value of 5. Find the radius.
$r^2 = 3^2 + 5^2$
$r = \pm\sqrt{8}$

5) y value of 5 and x value of 3.32. Find the radius.
$x^2 = 6^2 - 5^2$
$x = \pm\sqrt{11}$

6) y value of 3 and x value of 6.32. Find the radius.
$x^2 = 7^2 - 3^2$
$x = \pm\sqrt{40}$

7) x value of 2 and radius of 9. Find the value of y.
$y^2 = 9^2 - 2^2$
$y = \pm\sqrt{77}$

8) y value of 4 and x value of 5.74. Find the radius.
$x^2 = 7^2 - 4^2$
$x = \pm\sqrt{33}$

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

10) y value of 2 and x value of 8.77. Find the radius.
$x^2 = 9^2 - 2^2$
$x = \pm\sqrt{77}$

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

12) y value of 3 and x value of 9.54. Find the radius.
$x^2 = 10^2 - 3^2$
$x = \pm\sqrt{91}$

13) x value of 4 and radius of 9. Find the value of y.
$y^2 = 9^2 - 4^2$
$y = \pm\sqrt{65}$

Answers

1. **±5.66**
2. **±9.80**
3. **±4.90**
4. **±5.83**
5. **±3.32**
6. **±6.32**
7. **±8.77**
8. **±5.74**
9. **±4.47**
10. **±8.77**
11. **±9.80**
12. **±9.54**
13. **±8.06**

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