



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3) x value of 4 and radius of 10. Find the value of y.

3. _____

4) y value of 4 and x value of 9.17. Find the radius.

4. _____

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

5. _____

6) y value of 2 and x value of 7.75. Find the radius.

6. _____

7) y value of 4 and x value of 8.06. Find the radius.

7. _____

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

8. _____

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

9. _____

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

10. _____

11) y value of 4 and x value of 6.93. Find the radius.

11. _____

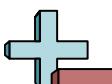
12) x value of 4 and radius of 7. Find the value of y.

12. _____

13) y value of 3 and x value of 8.49. Find the radius.

13. _____

Answers



Solve each problem. Round to two decimal places.

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

$$\begin{aligned}x^2 &= 7^2 - 3^2 \\x &= \pm\sqrt{40}\end{aligned}$$

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

$$\begin{aligned}x^2 &= 10^2 - 3^2 \\x &= \pm\sqrt{91}\end{aligned}$$

- 3) x value of 4 and radius of 10. Find the value of y.

$$\begin{aligned}y^2 &= 10^2 - 4^2 \\y &= \pm\sqrt{84}\end{aligned}$$

- 4) y value of 4 and x value of 9.17. Find the radius.

$$\begin{aligned}x^2 &= 10^2 - 4^2 \\x &= \pm\sqrt{84}\end{aligned}$$

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

$$\begin{aligned}x^2 &= 6^2 - 5^2 \\x &= \pm\sqrt{11}\end{aligned}$$

- 6) y value of 2 and x value of 7.75. Find the radius.

$$\begin{aligned}x^2 &= 8^2 - 2^2 \\x &= \pm\sqrt{60}\end{aligned}$$

- 7) y value of 4 and x value of 8.06. Find the radius.

$$\begin{aligned}x^2 &= 9^2 - 4^2 \\x &= \pm\sqrt{65}\end{aligned}$$

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

$$\begin{aligned}y^2 &= 6^2 - 3^2 \\y &= \pm\sqrt{27}\end{aligned}$$

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

$$\begin{aligned}r^2 &= 5^2 + 3^2 \\r &= \pm\sqrt{10}\end{aligned}$$

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

$$\begin{aligned}y^2 &= 10^2 - 2^2 \\y &= \pm\sqrt{96}\end{aligned}$$

- 11) y value of 4 and x value of 6.93. Find the radius.

$$\begin{aligned}x^2 &= 8^2 - 4^2 \\x &= \pm\sqrt{48}\end{aligned}$$

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

$$\begin{aligned}y^2 &= 7^2 - 4^2 \\y &= \pm\sqrt{33}\end{aligned}$$

- 13) y value of 3 and x value of 8.49. Find the radius.

$$\begin{aligned}x^2 &= 9^2 - 3^2 \\x &= \pm\sqrt{72}\end{aligned}$$

Answers1. **± 6.32** 2. **± 9.54** 3. **± 9.17** 4. **± 9.17** 5. **± 3.32** 6. **± 7.75** 7. **± 8.06** 8. **± 5.20** 9. **± 5.83** 10. **± 9.80** 11. **± 6.93** 12. **± 5.74** 13. **± 8.49**