



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

Answers

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

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____

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

10. _____

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

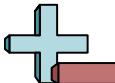
11. _____

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

12. _____

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

13. _____



Solving Circle Equations

Name: **Answer Key**

Solve each problem. Round to two decimal places.

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

$$\begin{aligned} r^2 &= 5^2 + 5^2 \\ r &= \pm\sqrt{50} \end{aligned}$$

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

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

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

$$\begin{aligned} r^2 &= 3^2 + 4^2 \\ r &= \pm\sqrt{25} \end{aligned}$$

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

$$\begin{aligned} r^2 &= 2^2 + 2^2 \\ r &= \pm\sqrt{8} \end{aligned}$$

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

$$\begin{aligned} r^2 &= 2^2 + 2^2 \\ r &= \pm\sqrt{8} \end{aligned}$$

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

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

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

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

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

$$\begin{aligned} y^2 &= 8^2 - 5^2 \\ y &= \pm\sqrt{39} \end{aligned}$$

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

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

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

$$\begin{aligned} y^2 &= 7^2 - 2^2 \\ y &= \pm\sqrt{45} \end{aligned}$$

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

$$\begin{aligned} r^2 &= 2^2 + 3^2 \\ r &= \pm\sqrt{13} \end{aligned}$$

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

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

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

$$\begin{aligned} y^2 &= 9^2 - 5^2 \\ y &= \pm\sqrt{56} \end{aligned}$$

Answers

1. **±7.07**

2. **±8.49**

3. **±5.00**

4. **±2.83**

5. **±2.83**

6. **±8.49**

7. **±9.17**

8. **±6.24**

9. **±9.17**

10. **±6.71**

11. **±3.61**

12. **±5.20**

13. **±7.48**