



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

8) x value of 2 and radius of 8. Find the value of y.

8. _____

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

9. _____

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

10. _____

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

11. _____

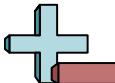
12) x value of 2 and radius of 6. Find the value of y.

12. _____

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

13. _____

Answers



Solve each problem. Round to two decimal places.

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

$$\begin{aligned} r^2 &= 5^2 + 4^2 \\ r &= \pm\sqrt{41} \end{aligned}$$

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

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

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

$$\begin{aligned} x^2 &= 8^2 - 3^2 \\ x &= \pm\sqrt{55} \end{aligned}$$

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

$$\begin{aligned} r^2 &= 4^2 + 3^2 \\ r &= \pm\sqrt{10} \end{aligned}$$

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

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

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

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

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

$$\begin{aligned} y^2 &= 6^2 - 2^2 \\ y &= \pm\sqrt{32} \end{aligned}$$

- 8) x value of 2 and radius of 8. Find the value of y.

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

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

$$\begin{aligned} r^2 &= 5^2 + 4^2 \\ r &= \pm\sqrt{41} \end{aligned}$$

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

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

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

$$\begin{aligned} y^2 &= 6^2 - 4^2 \\ y &= \pm\sqrt{20} \end{aligned}$$

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

$$\begin{aligned} y^2 &= 6^2 - 2^2 \\ y &= \pm\sqrt{32} \end{aligned}$$

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

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

Answers

1. **±6.40**

2. **±5.74**

3. **±7.42**

4. **±5.00**

5. **±7.48**

6. **±7.48**

7. **±5.66**

8. **±7.75**

9. **±6.40**

10. **±6.24**

11. **±4.47**

12. **±5.66**

13. **±8.06**