

Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

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 5. Find the radius.

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____

10) y value of 5 and x value of 6.24. Find the radius.

10. _____

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

11. _____

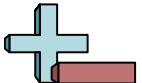
12) x value of 4 and y value of 2. Find the radius.

12. _____

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

13. _____

Answers



Solve each problem. Round to two decimal places.

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

$$\begin{aligned} r^2 &= 3^2 + 2^2 \\ r &= \pm\sqrt{6} \end{aligned}$$

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

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

- 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 5. Find the radius.

$$\begin{aligned} r^2 &= 4^2 + 5^2 \\ r &= \pm\sqrt{7} \end{aligned}$$

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

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

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

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

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

$$\begin{aligned} r^2 &= 3^2 + 4^2 \\ r &= \pm\sqrt{7} \end{aligned}$$

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

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

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

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

- 10) y value of 5 and x value of 6.24. Find the radius.

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

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

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

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

$$\begin{aligned} r^2 &= 4^2 + 2^2 \\ r &= \pm\sqrt{6} \end{aligned}$$

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

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

Answers

1. **± 3.61**

2. **± 5.66**

3. **± 7.42**

4. **± 6.40**

5. **± 6.71**

6. **± 9.80**

7. **± 5.00**

8. **± 5.66**

9. **± 8.49**

10. **± 6.24**

11. **± 7.42**

12. **± 4.47**

13. **± 9.54**