



Solving Circle Equations

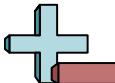
Name: _____

Solve each problem. Round to two decimal places.

- 1) x value of 3 and y value of 2. Find the radius.
- 2) x value of 4 and y value of 3. Find the radius.
- 3) x value of 2 and y value of 5. Find the radius.
- 4) y value of 5 and x value of 7.48. Find the radius.
- 5) x value of 2 and y value of 3. Find the radius.
- 6) y value of 5 and x value of 7.48. Find the radius.
- 7) x value of 3 and y value of 4. Find the radius.
- 8) x value of 4 and y value of 4. Find the radius.
- 9) x value of 4 and radius of 9. Find the value of y.
- 10) x value of 4 and radius of 8. Find the value of y.
- 11) y value of 2 and x value of 6.71. Find the radius.
- 12) x value of 2 and radius of 9. Find the value of y.
- 13) x value of 4 and y value of 5. Find the radius.

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____



Solving Circle Equations

Name: **Answer Key**

Solve each problem. Round to two decimal places.

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

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

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

$$\begin{aligned} r^2 &= 4^2 + 3^2 \\ r &= \pm\sqrt{9} \end{aligned}$$

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

$$\begin{aligned} r^2 &= 2^2 + 5^2 \\ r &= \pm\sqrt{6} \end{aligned}$$

- 4) y value of 5 and x value of 7.48. Find the radius.

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

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

$$\begin{aligned} r^2 &= 2^2 + 3^2 \\ r &= \pm\sqrt{8} \end{aligned}$$

- 6) y value of 5 and x value of 7.48. Find the radius.

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

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

$$\begin{aligned} r^2 &= 3^2 + 4^2 \\ r &= \pm\sqrt{6} \end{aligned}$$

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

$$\begin{aligned} r^2 &= 4^2 + 4^2 \\ r &= \pm\sqrt{9} \end{aligned}$$

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

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

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

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

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

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

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

$$\begin{aligned} y^2 &= 9^2 - 2^2 \\ y &= \pm\sqrt{77} \end{aligned}$$

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

$$\begin{aligned} r^2 &= 4^2 + 5^2 \\ r &= \pm\sqrt{8} \end{aligned}$$

Answers

1. **±3.61**

2. **±5.00**

3. **±5.39**

4. **±7.48**

5. **±3.61**

6. **±7.48**

7. **±5.00**

8. **±5.66**

9. **±8.06**

10. **±6.93**

11. **±6.71**

12. **±8.77**

13. **±6.40**