



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____

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

10. _____

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

11. _____

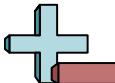
12) y value of 3 and x value of 9.54. Find the radius.

12. _____

13) y value of 4 and x value of 5.74. Find the radius.

13. _____

Answers



Solving Circle Equations

Name: **Answer Key**

Solve each problem. Round to two decimal places.

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

$$r^2 = 4^2 + 2^2$$

$$r = \pm\sqrt{7}$$

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

$$r^2 = 5^2 + 3^2$$

$$r = \pm\sqrt{8}$$

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

$$r^2 = 4^2 + 5^2$$

$$r = \pm\sqrt{9}$$

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

$$r^2 = 5^2 + 4^2$$

$$r = \pm\sqrt{6}$$

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

$$x^2 = 8^2 - 4^2$$

$$x = \pm\sqrt{48}$$

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

$$y^2 = 8^2 - 4^2$$

$$y = \pm\sqrt{48}$$

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

$$r^2 = 5^2 + 5^2$$

$$r = \pm\sqrt{8}$$

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

$$r^2 = 4^2 + 2^2$$

$$r = \pm\sqrt{6}$$

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

$$y^2 = 6^2 - 5^2$$

$$y = \pm\sqrt{11}$$

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

$$x^2 = 10^2 - 2^2$$

$$x = \pm\sqrt{96}$$

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

$$y^2 = 8^2 - 4^2$$

$$y = \pm\sqrt{48}$$

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

$$x^2 = 10^2 - 3^2$$

$$x = \pm\sqrt{91}$$

- 13) y value of 4 and x value of 5.74. Find the radius.

$$x^2 = 7^2 - 4^2$$

$$x = \pm\sqrt{33}$$

Answers

1. **±4.47**

2. **±5.83**

3. **±6.40**

4. **±6.40**

5. **±6.93**

6. **±6.93**

7. **±7.07**

8. **±4.47**

9. **±3.32**

10. **±9.80**

11. **±6.93**

12. **±9.54**

13. **±5.74**