

Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3) y value of 4 and x value of 8.06. Find the radius.

3. _____

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

4. _____

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

5. _____

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

6. _____

7) y value of 4 and x value of 4.47. Find the radius.

7. _____

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

8. _____

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

9. _____

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

10. _____

11) y value of 5 and x value of 3.32. Find the radius.

11. _____

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

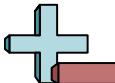
12. _____

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

13. _____

Answers

1-10	92	85	77	69	62	54	46	38	31	23
11-13	15	8	0							



Solving Circle Equations

Name: **Answer Key**

Solve each problem. Round to two decimal places.

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

$$y^2 = 8^2 - 3^2$$

$$y = \pm\sqrt{55}$$

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

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

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

- 3) y value of 4 and x value of 8.06. Find the radius.

$$x^2 = 9^2 - 4^2$$

$$x = \pm\sqrt{65}$$

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

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

$$r = \pm\sqrt{29}$$

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

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

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

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

$$y^2 = 7^2 - 5^2$$

$$y = \pm\sqrt{24}$$

- 7) y value of 4 and x value of 4.47. Find the radius.

$$x^2 = 6^2 - 4^2$$

$$x = \pm\sqrt{20}$$

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

$$y^2 = 8^2 - 3^2$$

$$y = \pm\sqrt{55}$$

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

$$y^2 = 8^2 - 3^2$$

$$y = \pm\sqrt{55}$$

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

$$y^2 = 6^2 - 3^2$$

$$y = \pm\sqrt{27}$$

- 11) y value of 5 and x value of 3.32. Find the radius.

$$x^2 = 6^2 - 5^2$$

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

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

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

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

Answers

1. **±7.42**

2. **±5.74**

3. **±8.06**

4. **±5.39**

5. **±5.74**

6. **±4.90**

7. **±4.47**

8. **±7.42**

9. **±7.42**

10. **±5.20**

11. **±3.32**

12. **±9.54**

13. **±6.93**