



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____

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

10. _____

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

11. _____

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

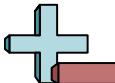
12. _____

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

13. _____

Answers

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



Solve each problem. Round to two decimal places.

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

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

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

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

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

$$r = \pm\sqrt{10}$$

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

$$x^2 = 9^2 - 5^2$$

$$x = \pm\sqrt{56}$$

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

$$r^2 = 4^2 + 3^2$$

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

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

$$r^2 = 4^2 + 3^2$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$y = \pm\sqrt{60}$$

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

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

$$y = \pm\sqrt{60}$$

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

$$y^2 = 7^2 - 3^2$$

$$y = \pm\sqrt{40}$$

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

$$y^2 = 9^2 - 4^2$$

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

Answers

1. **± 5.39**

2. **± 5.83**

3. **± 7.48**

4. **± 5.00**

5. **± 5.00**

6. **± 3.61**

7. **± 7.07**

8. **± 7.07**

9. **± 5.74**

10. **± 7.75**

11. **± 7.75**

12. **± 6.32**

13. **± 8.06**