



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

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

3. _____

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

4. _____

5) y value of 3 and x value of 6.32. Find the radius.

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____

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

10. _____

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

11. _____

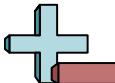
12) y value of 2 and x value of 8.77. Find the radius.

12. _____

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

13. _____

Answers



Solving Circle Equations

Name: **Answer Key**

Solve each problem. Round to two decimal places.

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

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

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

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

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

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

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

$$x^2 = 9^2 - 3^2$$

$$x = \pm\sqrt{72}$$

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

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

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

- 5) y value of 3 and x value of 6.32. Find the radius.

$$x^2 = 7^2 - 3^2$$

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

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

$$y^2 = 6^2 - 4^2$$

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

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

$$y^2 = 7^2 - 4^2$$

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

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

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

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

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

$$y^2 = 8^2 - 5^2$$

$$y = \pm\sqrt{39}$$

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

$$y^2 = 10^2 - 4^2$$

$$y = \pm\sqrt{84}$$

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

$$y^2 = 9^2 - 3^2$$

$$y = \pm\sqrt{72}$$

- 12) y value of 2 and x value of 8.77. Find the radius.

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

$$x = \pm\sqrt{77}$$

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

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

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

Answers

1. **±6.32**

2. **±5.20**

3. **±8.49**

4. **±3.61**

5. **±6.32**

6. **±4.47**

7. **±5.74**

8. **±8.06**

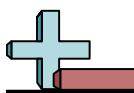
9. **±6.24**

10. **±9.17**

11. **±8.49**

12. **±8.77**

13. **±9.80**



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

Answers

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

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____

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

10. _____

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

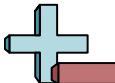
11. _____

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

12. _____

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

13. _____



Solving Circle Equations

Name: **Answer Key**

Solve each problem. Round to two decimal places.

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

$$y^2 = 9^2 - 3^2$$

$$y = \pm\sqrt{72}$$

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

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

$$r = \pm\sqrt{13}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$r = \pm\sqrt{34}$$

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

$$y^2 = 10^2 - 2^2$$

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

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

$$y^2 = 7^2 - 4^2$$

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

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

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

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

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

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

$$r = \pm\sqrt{34}$$

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

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

$$x = \pm\sqrt{32}$$

Answers

1. **±8.49**

2. **±3.61**

3. **±2.83**

4. **±8.06**

5. **±4.47**

6. **±8.06**

7. **±5.20**

8. **±5.83**

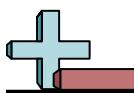
9. **±9.80**

10. **±5.74**

11. **±7.42**

12. **±5.83**

13. **±5.66**



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. _____

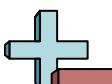
12) x value of 4 and y value of 2. Find the radius.

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**

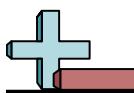
9. **±8.49**

10. **±6.24**

11. **±7.42**

12. **±4.47**

13. **±9.54**



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____

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

10. _____

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

11. _____

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

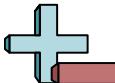
12. _____

13) y value of 5 and x value of 4.90. Find the radius.

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 6. Find the value of y.

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

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

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

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

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

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

$$y^2 = 7^2 - 4^2$$

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

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

$$y^2 = 10^2 - 4^2$$

$$y = \pm\sqrt{84}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$y^2 = 9^2 - 3^2$$

$$y = \pm\sqrt{72}$$

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

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

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

- 13) y value of 5 and x value of 4.90. Find the radius.

$$x^2 = 7^2 - 5^2$$

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

Answers

1. **±5.20**

2. **±3.61**

3. **±5.74**

4. **±9.17**

5. **±4.47**

6. **±7.75**

7. **±7.75**

8. **±6.40**

9. **±5.83**

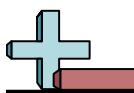
10. **±3.61**

11. **±8.49**

12. **±6.40**

13. **±4.90**

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



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

1) y value of 2 and x value of 7.75. Find the radius.

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

8) y value of 3 and x value of 6.32. Find the radius.

8. _____

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

9. _____

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

10. _____

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

11. _____

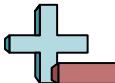
12) x value of 5 and y value of 3. Find the radius.

12. _____

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

13. _____

Answers



Solving Circle Equations

Name: **Answer Key**

Solve each problem. Round to two decimal places.

- 1) y value of 2 and x value of 7.75. Find the radius.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$y^2 = 10^2 - 5^2$$

$$y = \pm\sqrt{75}$$

- 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) y value of 3 and x value of 6.32. Find the radius.

$$x^2 = 7^2 - 3^2$$

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

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

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

$$y = \pm\sqrt{32}$$

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

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

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

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

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

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

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

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

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

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

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

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

Answers

1. **±7.75**

2. **±5.20**

3. **±3.61**

4. **±5.20**

5. **±2.83**

6. **±8.66**

7. **±4.47**

8. **±6.32**

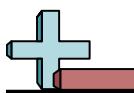
9. **±5.66**

10. **±3.61**

11. **±5.00**

12. **±5.83**

13. **±2.83**



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

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

3. _____

4) y value of 5 and x value of 4.90. Find the radius.

4. _____

5) y value of 3 and x value of 6.32. 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 radius of 8. Find the value of y.

7. _____

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

8. _____

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

9. _____

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

10. _____

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

11. _____

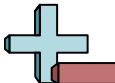
12) x value of 3 and radius of 8. Find the value of y.

12. _____

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

13. _____

Answers



Solving Circle Equations

Name: **Answer Key**

Solve each problem. Round to two decimal places.

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

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

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

$$\begin{aligned} y^2 &= 6^2 - 5^2 \\ y &= \pm\sqrt{11} \end{aligned}$$

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

$$\begin{aligned} y^2 &= 7^2 - 3^2 \\ y &= \pm\sqrt{40} \end{aligned}$$

- 4) y value of 5 and x value of 4.90. Find the radius.

$$\begin{aligned} x^2 &= 7^2 - 5^2 \\ x &= \pm\sqrt{24} \end{aligned}$$

- 5) y value of 3 and x value of 6.32. Find the radius.

$$\begin{aligned} x^2 &= 7^2 - 3^2 \\ x &= \pm\sqrt{40} \end{aligned}$$

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

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

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

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

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

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

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

$$\begin{aligned} r^2 &= 3^2 + 5^2 \\ r &= \pm\sqrt{6} \end{aligned}$$

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

$$\begin{aligned} y^2 &= 6^2 - 5^2 \\ y &= \pm\sqrt{11} \end{aligned}$$

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

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

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

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

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

$$\begin{aligned} r^2 &= 4^2 + 5^2 \\ r &= \pm\sqrt{10} \end{aligned}$$

Answers

1. **±4.47**

2. **±3.32**

3. **±6.32**

4. **±4.90**

5. **±6.32**

6. **±6.93**

7. **±6.24**

8. **±8.06**

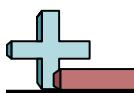
9. **±5.83**

10. **±3.32**

11. **±7.48**

12. **±7.42**

13. **±6.40**



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

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

3. _____

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

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____

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

10. _____

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

11. _____

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

12. _____

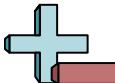
13) x value of 3 and y value of 4. Find the radius.

13. _____

Answers

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

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

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

$$x = \pm\sqrt{45}$$

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

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

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

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

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

$$r = \pm\sqrt{34}$$

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

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

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

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

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

$$r = \pm\sqrt{13}$$

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

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

$$r = \pm\sqrt{25}$$

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

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

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

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

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

$$y = \pm\sqrt{77}$$

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

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

$$r = \pm\sqrt{18}$$

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

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

$$r = \pm\sqrt{25}$$

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

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

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

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

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

$$r = \pm\sqrt{25}$$

Answers

1. **± 6.71**

2. **± 2.83**

3. **± 5.83**

4. **± 3.32**

5. **± 3.61**

6. **± 5.00**

7. **± 2.83**

8. **± 8.77**

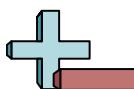
9. **± 4.24**

10. **± 5.00**

11. **± 5.39**

12. **± 9.54**

13. **± 5.00**



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

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

1. _____

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

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 3. Find the radius.

4. _____

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

5. _____

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

6. _____

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

7. _____

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

8. _____

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

9. _____

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

10. _____

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

11. _____

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

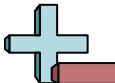
12. _____

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 5 and y value of 4. Find the radius.

$$\begin{aligned} r^2 &= 5^2 + 4^2 \\ r &= \pm\sqrt{41} \end{aligned}$$

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

$$\begin{aligned} y^2 &= 7^2 - 4^2 \\ y &= \pm\sqrt{33} \end{aligned}$$

- 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 3. Find the radius.

$$\begin{aligned} r^2 &= 4^2 + 3^2 \\ r &= \pm\sqrt{10} \end{aligned}$$

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

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

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

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

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

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

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

$$\begin{aligned} y^2 &= 8^2 - 2^2 \\ y &= \pm\sqrt{60} \end{aligned}$$

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

$$\begin{aligned} r^2 &= 5^2 + 4^2 \\ r &= \pm\sqrt{41} \end{aligned}$$

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

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

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

$$\begin{aligned} y^2 &= 6^2 - 4^2 \\ y &= \pm\sqrt{20} \end{aligned}$$

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

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

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

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

Answers

1. **± 6.40**

2. **± 5.74**

3. **± 7.42**

4. **± 5.00**

5. **± 7.48**

6. **± 7.48**

7. **± 5.66**

8. **± 7.75**

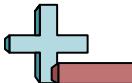
9. **± 6.40**

10. **± 6.24**

11. **± 4.47**

12. **± 5.66**

13. **± 8.06**



Solving Circle Equations

Name: _____

Solve each problem. Round to two decimal places.

1) y value of 3 and x value of 6.32. Find the radius.

1. _____

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

2. _____

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

3. _____

4) y value of 4 and x value of 9.17. Find the radius.

4. _____

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

5. _____

6) y value of 2 and x value of 7.75. Find the radius.

6. _____

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

7. _____

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

8. _____

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

9. _____

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

10. _____

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

11. _____

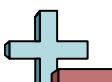
12) x value of 4 and radius of 7. Find the value of y.

12. _____

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

13. _____

Answers



Solve each problem. Round to two decimal places.

- 1) y value of 3 and x value of 6.32. Find the radius.

$$\begin{aligned}x^2 &= 7^2 - 3^2 \\x &= \pm\sqrt{40}\end{aligned}$$

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

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

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

$$\begin{aligned}y^2 &= 10^2 - 4^2 \\y &= \pm\sqrt{84}\end{aligned}$$

- 4) y value of 4 and x value of 9.17. Find the radius.

$$\begin{aligned}x^2 &= 10^2 - 4^2 \\x &= \pm\sqrt{84}\end{aligned}$$

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

$$\begin{aligned}x^2 &= 6^2 - 5^2 \\x &= \pm\sqrt{11}\end{aligned}$$

- 6) y value of 2 and x value of 7.75. Find the radius.

$$\begin{aligned}x^2 &= 8^2 - 2^2 \\x &= \pm\sqrt{60}\end{aligned}$$

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

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

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

$$\begin{aligned}y^2 &= 6^2 - 3^2 \\y &= \pm\sqrt{27}\end{aligned}$$

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

$$\begin{aligned}r^2 &= 5^2 + 3^2 \\r &= \pm\sqrt{10}\end{aligned}$$

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

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

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

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

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

$$\begin{aligned}y^2 &= 7^2 - 4^2 \\y &= \pm\sqrt{33}\end{aligned}$$

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

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

Answers1. **± 6.32** 2. **± 9.54** 3. **± 9.17** 4. **± 9.17** 5. **± 3.32** 6. **± 7.75** 7. **± 8.06** 8. **± 5.20** 9. **± 5.83** 10. **± 9.80** 11. **± 6.93** 12. **± 5.74** 13. **± 8.49**



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. _____

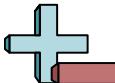
13) x value of 4 and radius of 9. Find the value of y.

13. _____

Answers

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

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**