Solving Circle Equations

Name:

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3. _____

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

4. _____

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

5. _____

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

6. _____

7. _____

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

8. _____

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

9. _____

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

10. _____

11. _____

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

12. _____

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

13. _____

14. _____

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

15. _____

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

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

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

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

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Name:

Solve each problem. Round to two decimal places.

Answers

1) x value of 3 and y value of 5. Find the radius.
$r^2 = 3^2 + 5^2$
$r = \pm\sqrt{10}$

2) y value of 3 and radius of 7. Find the value of x.
$x^2 = 7^2 - 3^2$
$x = \pm\sqrt{40}$

3) x value of 2 and radius of 7. Find the value of y.
$y^2 = 7^2 - 2^2$
$y = \pm\sqrt{45}$

4) x value of 2 and radius of 8. Find the value of y.
$y^2 = 8^2 - 2^2$
$y = \pm\sqrt{60}$

5) x value of 5 and radius of 9. Find the value of y.
$y^2 = 9^2 - 5^2$
$y = \pm\sqrt{56}$

6) y value of 2 and radius of 8. Find the value of x.
$x^2 = 8^2 - 2^2$
$x = \pm\sqrt{60}$

7) x value of 2 and radius of 6. Find the value of y.
$y^2 = 6^2 - 2^2$
$y = \pm\sqrt{32}$

8) y value of 5 and radius of 9. Find the value of x.
$x^2 = 9^2 - 5^2$
$x = \pm\sqrt{56}$

9) x value of 3 and y value of 5. Find the radius.
$r^2 = 3^2 + 5^2$
$r = \pm\sqrt{7}$

10) x value of 2 and y value of 3. Find the radius.
$r^2 = 2^2 + 3^2$
$r = \pm\sqrt{10}$

11) y value of 2 and radius of 10. Find the value of x.
$x^2 = 10^2 - 2^2$
$x = \pm\sqrt{96}$

12) y value of 3 and radius of 6. Find the value of x.
$x^2 = 6^2 - 3^2$
$x = \pm\sqrt{27}$

13) x value of 2 and radius of 9. Find the value of y.
$y^2 = 9^2 - 2^2$
$y = \pm\sqrt{77}$

14) x value of 3 and y value of 4. Find the radius.
$r^2 = 3^2 + 4^2$
$r = \pm\sqrt{9}$

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

	Answers
1.	±5.83
2.	±6.32
3.	±6.71
4.	±7.75
5.	±7.48
6.	±7.75
7.	±5.66
8.	±7.48
9.	±5.83
10.	±3.61
11.	±9.80
12.	±5.20
13.	±8.77
14.	±5.00
15.	±7.42

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Solving Circle Equations   Name:

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 2 and radius of 6. Find the value of y.

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

| 1-10 | 93 | 87 | 80 | 73 | 67 | 60 | 53 | 47 | 40 | 33 |
| 11-15 | 27 | 20 | 13 | 7 | 0 | | | | | |

Name:

Solve each problem. Round to two decimal places.

1) x value of 3 and y value of 2. Find the radius.
$r^2 = 3^2 + 2^2$
$r = \pm\sqrt{7}$

1. ___**±3.61**___

2) x value of 2 and radius of 6. Find the value of y.
$y^2 = 6^2 - 2^2$
$y = \pm\sqrt{32}$

2. ___**±5.66**___

3) x value of 4 and y value of 2. Find the radius.
$r^2 = 4^2 + 2^2$
$r = \pm\sqrt{7}$

3. ___**±4.47**___

4) x value of 4 and y value of 3. Find the radius.
$r^2 = 4^2 + 3^2$
$r = \pm\sqrt{7}$

4. ___**±5.00**___

5) y value of 4 and radius of 6. Find the value of x.
$x^2 = 6^2 - 4^2$
$x = \pm\sqrt{20}$

5. ___**±4.47**___

6) y value of 3 and radius of 10. Find the value of x.
$x^2 = 10^2 - 3^2$
$x = \pm\sqrt{91}$

6. ___**±9.54**___

7) x value of 2 and y value of 2. Find the radius.
$r^2 = 2^2 + 2^2$
$r = \pm\sqrt{8}$

7. ___**±2.83**___

8) x value of 2 and y value of 4. Find the radius.
$r^2 = 2^2 + 4^2$
$r = \pm\sqrt{7}$

8. ___**±4.47**___

9) y value of 4 and radius of 6. Find the value of x.
$x^2 = 6^2 - 4^2$
$x = \pm\sqrt{20}$

9. ___**±4.47**___

10) y value of 3 and radius of 8. Find the value of x.
$x^2 = 8^2 - 3^2$
$x = \pm\sqrt{55}$

10. ___**±7.42**___

11) x value of 3 and y value of 5. Find the radius.
$r^2 = 3^2 + 5^2$
$r = \pm\sqrt{6}$

11. ___**±5.83**___

12) x value of 4 and y value of 5. Find the radius.
$r^2 = 4^2 + 5^2$
$r = \pm\sqrt{6}$

12. ___**±6.40**___

13) x value of 2 and radius of 9. Find the value of y.
$y^2 = 9^2 - 2^2$
$y = \pm\sqrt{77}$

13. ___**±8.77**___

14) x value of 4 and y value of 4. Find the radius.
$r^2 = 4^2 + 4^2$
$r = \pm\sqrt{10}$

14. ___**±5.66**___

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

15. ___**±9.54**___

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3. _____

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

4. _____

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

5. _____

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

6. _____

7. _____

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

8. _____

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

9. _____

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

10. _____

11. _____

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

12. _____

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

13. _____

14. _____

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

15. _____

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

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

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

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

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Name:

Solve each problem. Round to two decimal places.

Answers

1) y value of 2 and radius of 9. Find the value of x.
$x^2 = 9^2 - 2^2$
$x = \pm\sqrt{77}$

2) x value of 3 and y value of 3. Find the radius.
$r^2 = 3^2 + 3^2$
$r = \pm\sqrt{6}$

3) x value of 2 and radius of 8. Find the value of y.
$y^2 = 8^2 - 2^2$
$y = \pm\sqrt{60}$

4) x value of 5 and radius of 9. Find the value of y.
$y^2 = 9^2 - 5^2$
$y = \pm\sqrt{56}$

5) x value of 4 and radius of 10. Find the value of y.
$y^2 = 10^2 - 4^2$
$y = \pm\sqrt{84}$

6) y value of 2 and radius of 10. Find the value of x.
$x^2 = 10^2 - 2^2$
$x = \pm\sqrt{96}$

7) x value of 5 and radius of 7. Find the value of y.
$y^2 = 7^2 - 5^2$
$y = \pm\sqrt{24}$

8) x value of 2 and y value of 3. Find the radius.
$r^2 = 2^2 + 3^2$
$r = \pm\sqrt{10}$

9) x value of 4 and radius of 10. Find the value of y.
$y^2 = 10^2 - 4^2$
$y = \pm\sqrt{84}$

10) y value of 3 and radius of 6. Find the value of x.
$x^2 = 6^2 - 3^2$
$x = \pm\sqrt{27}$

11) y value of 5 and radius of 6. Find the value of x.
$x^2 = 6^2 - 5^2$
$x = \pm\sqrt{11}$

12) x value of 5 and y value of 3. Find the radius.
$r^2 = 5^2 + 3^2$
$r = \pm\sqrt{8}$

13) x value of 4 and y value of 4. Find the radius.
$r^2 = 4^2 + 4^2$
$r = \pm\sqrt{9}$

14) x value of 5 and y value of 4. Find the radius.
$r^2 = 5^2 + 4^2$
$r = \pm\sqrt{9}$

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

1. **±8.77**
2. **±4.24**
3. **±7.75**
4. **±7.48**
5. **±9.17**
6. **±9.80**
7. **±4.90**
8. **±3.61**
9. **±9.17**
10. **±5.20**
11. **±3.32**
12. **±5.83**
13. **±5.66**
14. **±6.40**
15. **±8.49**

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Name:

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3. _____

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

4. _____

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

5. _____

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

6. _____

7. _____

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

8. _____

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

9. _____

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

10. _____

11. _____

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

12. _____

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

13. _____

14. _____

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

15. _____

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

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

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

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

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Name: **Answer Key**

Solve each problem. Round to two decimal places.

Answers

1) y value of 4 and radius of 7. Find the value of x.
$x^2 = 7^2 - 4^2$
$x = \pm\sqrt{33}$

1. _____**±5.74**_____

2) x value of 3 and radius of 8. Find the value of y.
$y^2 = 8^2 - 3^2$
$y = \pm\sqrt{55}$

2. _____**±7.42**_____

3) x value of 5 and radius of 7. Find the value of y.
$y^2 = 7^2 - 5^2$
$y = \pm\sqrt{24}$

3. _____**±4.90**_____

4) x value of 4 and radius of 7. Find the value of y.
$y^2 = 7^2 - 4^2$
$y = \pm\sqrt{33}$

4. _____**±5.74**_____

5) x value of 4 and radius of 7. Find the value of y.
$y^2 = 7^2 - 4^2$
$y = \pm\sqrt{33}$

5. _____**±5.74**_____

6) x value of 5 and y value of 3. Find the radius.
$r^2 = 5^2 + 3^2$
$r = \pm\sqrt{9}$

6. _____**±5.83**_____

7) y value of 3 and radius of 6. Find the value of x.
$x^2 = 6^2 - 3^2$
$x = \pm\sqrt{27}$

7. _____**±5.20**_____

8) x value of 5 and radius of 7. Find the value of y.
$y^2 = 7^2 - 5^2$
$y = \pm\sqrt{24}$

8. _____**±4.90**_____

9) y value of 3 and radius of 9. Find the value of x.
$x^2 = 9^2 - 3^2$
$x = \pm\sqrt{72}$

9. _____**±8.49**_____

10) y value of 2 and radius of 9. Find the value of x.
$x^2 = 9^2 - 2^2$
$x = \pm\sqrt{77}$

10. _____**±8.77**_____

11) x value of 4 and radius of 8. Find the value of y.
$y^2 = 8^2 - 4^2$
$y = \pm\sqrt{48}$

11. _____**±6.93**_____

12) x value of 2 and radius of 10. Find the value of y.
$y^2 = 10^2 - 2^2$
$y = \pm\sqrt{96}$

12. _____**±9.80**_____

13) y value of 4 and radius of 7. Find the value of x.
$x^2 = 7^2 - 4^2$
$x = \pm\sqrt{33}$

13. _____**±5.74**_____

14) x value of 5 and y value of 5. Find the radius.
$r^2 = 5^2 + 5^2$
$r = \pm\sqrt{9}$

14. _____**±7.07**_____

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

15. _____**±4.47**_____

| 1-10 | 93 | 87 | 80 | 73 | 67 | 60 | 53 | 47 | 40 | 33 |
| 11-15 | 27 | 20 | 13 | 7 | 0 | | | | | |

Solving Circle Equations

Name:

Solve each problem. Round to two decimal places.

Answers

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

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1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Name:

Solve each problem. Round to two decimal places.

<u>**Answers**</u>

1) y value of 3 and radius of 7. Find the value of x.
$x^2 = 7^2 - 3^2$
$x = \pm\sqrt{40}$

1. _____ **±6.32** _____

2) y value of 5 and radius of 7. Find the value of x.
$x^2 = 7^2 - 5^2$
$x = \pm\sqrt{24}$

2. _____ **±4.90** _____

3) y value of 2 and radius of 8. Find the value of x.
$x^2 = 8^2 - 2^2$
$x = \pm\sqrt{60}$

3. _____ **±7.75** _____

4) x value of 4 and radius of 10. Find the value of y.
$y^2 = 10^2 - 4^2$
$y = \pm\sqrt{84}$

4. _____ **±9.17** _____

5) x value of 3 and radius of 8. Find the value of y.
$y^2 = 8^2 - 3^2$
$y = \pm\sqrt{55}$

5. _____ **±7.42** _____

6) x value of 5 and radius of 8. Find the value of y.
$y^2 = 8^2 - 5^2$
$y = \pm\sqrt{39}$

6. _____ **±6.24** _____

7) x value of 3 and radius of 10. Find the value of y.
$y^2 = 10^2 - 3^2$
$y = \pm\sqrt{91}$

7. _____ **±9.54** _____

8) y value of 4 and radius of 10. Find the value of x.
$x^2 = 10^2 - 4^2$
$x = \pm\sqrt{84}$

8. _____ **±9.17** _____

9) x value of 2 and y value of 4. Find the radius.
$r^2 = 2^2 + 4^2$
$r = \pm\sqrt{8}$

9. _____ **±4.47** _____

10) y value of 2 and radius of 9. Find the value of x.
$x^2 = 9^2 - 2^2$
$x = \pm\sqrt{77}$

10. _____ **±8.77** _____

11) y value of 2 and radius of 6. Find the value of x.
$x^2 = 6^2 - 2^2$
$x = \pm\sqrt{32}$

11. _____ **±5.66** _____

12) x value of 4 and radius of 6. Find the value of y.
$y^2 = 6^2 - 4^2$
$y = \pm\sqrt{20}$

12. _____ **±4.47** _____

13) y value of 3 and radius of 7. Find the value of x.
$x^2 = 7^2 - 3^2$
$x = \pm\sqrt{40}$

13. _____ **±6.32** _____

14) x value of 5 and radius of 8. Find the value of y.
$y^2 = 8^2 - 5^2$
$y = \pm\sqrt{39}$

14. _____ **±6.24** _____

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

15. _____ **±5.00** _____

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Name:

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3. _____

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

4. _____

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

5. _____

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

6. _____

7. _____

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

8. _____

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

9. _____

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

10. _____

11. _____

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

12. _____

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

13. _____

14. _____

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

15. _____

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

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

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

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

Solve each problem. Round to two decimal places.

1) x value of 2 and y value of 2. Find the radius.
$r^2 = 2^2 + 2^2$
$r = \pm\sqrt{6}$

2) y value of 3 and radius of 10. Find the value of x.
$x^2 = 10^2 - 3^2$
$x = \pm\sqrt{91}$

3) y value of 2 and radius of 9. Find the value of x.
$x^2 = 9^2 - 2^2$
$x = \pm\sqrt{77}$

4) x value of 5 and y value of 3. Find the radius.
$r^2 = 5^2 + 3^2$
$r = \pm\sqrt{6}$

5) x value of 5 and radius of 9. Find the value of y.
$y^2 = 9^2 - 5^2$
$y = \pm\sqrt{56}$

6) x value of 4 and y value of 3. Find the radius.
$r^2 = 4^2 + 3^2$
$r = \pm\sqrt{6}$

7) x value of 3 and radius of 10. Find the value of y.
$y^2 = 10^2 - 3^2$
$y = \pm\sqrt{91}$

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 2 and radius of 9. Find the value of y.
$y^2 = 9^2 - 2^2$
$y = \pm\sqrt{77}$

10) y value of 3 and radius of 6. Find the value of x.
$x^2 = 6^2 - 3^2$
$x = \pm\sqrt{27}$

11) x value of 2 and radius of 7. Find the value of y.
$y^2 = 7^2 - 2^2$
$y = \pm\sqrt{45}$

12) y value of 5 and radius of 9. Find the value of x.
$x^2 = 9^2 - 5^2$
$x = \pm\sqrt{56}$

13) y value of 5 and radius of 6. Find the value of x.
$x^2 = 6^2 - 5^2$
$x = \pm\sqrt{11}$

14) x value of 3 and y value of 4. Find the radius.
$r^2 = 3^2 + 4^2$
$r = \pm\sqrt{6}$

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

1.	**±2.83**
2.	**±9.54**
3.	**±8.77**
4.	**±5.83**
5.	**±7.48**
6.	**±5.00**
7.	**±9.54**
8.	**±7.42**
9.	**±8.77**
10.	**±5.20**
11.	**±6.71**
12.	**±7.48**
13.	**±3.32**
14.	**±5.00**
15.	**±3.32**

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3. _____

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

4. _____

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

5. _____

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

6. _____

7. _____

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

8. _____

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

9. _____

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

10. _____

11. _____

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

12. _____

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

13. _____

14. _____

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

15. _____

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

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

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

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

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Solve each problem. Round to two decimal places.

1) x value of 4 and radius of 8. Find the value of y.
$y^2 = 8^2 - 4^2$
$y = \pm\sqrt{48}$

2) x value of 2 and y value of 3. Find the radius.
$r^2 = 2^2 + 3^2$
$r = \pm\sqrt{7}$

3) x value of 3 and radius of 9. Find the value of y.
$y^2 = 9^2 - 3^2$
$y = \pm\sqrt{72}$

4) y value of 2 and radius of 8. Find the value of x.
$x^2 = 8^2 - 2^2$
$x = \pm\sqrt{60}$

5) x value of 4 and radius of 6. Find the value of y.
$y^2 = 6^2 - 4^2$
$y = \pm\sqrt{20}$

6) x value of 3 and radius of 6. Find the value of y.
$y^2 = 6^2 - 3^2$
$y = \pm\sqrt{27}$

7) y value of 4 and radius of 6. Find the value of x.
$x^2 = 6^2 - 4^2$
$x = \pm\sqrt{20}$

8) x value of 2 and y value of 5. Find the radius.
$r^2 = 2^2 + 5^2$
$r = \pm\sqrt{9}$

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 3 and y value of 4. Find the radius.
$r^2 = 3^2 + 4^2$
$r = \pm\sqrt{6}$

11) x value of 2 and y value of 5. Find the radius.
$r^2 = 2^2 + 5^2$
$r = \pm\sqrt{6}$

12) y value of 3 and radius of 7. Find the value of x.
$x^2 = 7^2 - 3^2$
$x = \pm\sqrt{40}$

13) x value of 2 and radius of 9. Find the value of y.
$y^2 = 9^2 - 2^2$
$y = \pm\sqrt{77}$

14) x value of 4 and radius of 8. Find the value of y.
$y^2 = 8^2 - 4^2$
$y = \pm\sqrt{48}$

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

1. ±6.93
2. ±3.61
3. ±8.49
4. ±7.75
5. ±4.47
6. ±5.20
7. ±4.47
8. ±5.39
9. ±6.24
10. ±5.00
11. ±5.39
12. ±6.32
13. ±8.77
14. ±6.93
15. ±5.66

| 1-10 | 93 | 87 | 80 | 73 | 67 | 60 | 53 | 47 | 40 | 33 |
| 11-15 | 27 | 20 | 13 | 7 | 0 | | | | | |

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3. _____

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

4. _____

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

5. _____

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

6. _____

7. _____

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

8. _____

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

9. _____

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

10. _____

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

11. _____

12. _____

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

13. _____

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

14. _____

15. _____

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

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

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

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

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Solve each problem. Round to two decimal places.

1) x value of 3 and y value of 3. Find the radius.
$r^2 = 3^2 + 3^2$
$r = \pm\sqrt{10}$

1. **±4.24**

2) x value of 3 and radius of 9. Find the value of y.
$y^2 = 9^2 - 3^2$
$y = \pm\sqrt{72}$

2. **±8.49**

3) y value of 4 and radius of 10. Find the value of x.
$x^2 = 10^2 - 4^2$
$x = \pm\sqrt{84}$

3. **±9.17**

4) x value of 5 and y value of 3. Find the radius.
$r^2 = 5^2 + 3^2$
$r = \pm\sqrt{6}$

4. **±5.83**

5) x value of 2 and radius of 9. Find the value of y.
$y^2 = 9^2 - 2^2$
$y = \pm\sqrt{77}$

5. **±8.77**

6) x value of 5 and radius of 7. Find the value of y.
$y^2 = 7^2 - 5^2$
$y = \pm\sqrt{24}$

6. **±4.90**

7) x value of 3 and y value of 2. Find the radius.
$r^2 = 3^2 + 2^2$
$r = \pm\sqrt{9}$

7. **±3.61**

8) x value of 2 and radius of 7. Find the value of y.
$y^2 = 7^2 - 2^2$
$y = \pm\sqrt{45}$

8. **±6.71**

9) y value of 2 and radius of 10. Find the value of x.
$x^2 = 10^2 - 2^2$
$x = \pm\sqrt{96}$

9. **±9.80**

10) x value of 4 and radius of 10. Find the value of y.
$y^2 = 10^2 - 4^2$
$y = \pm\sqrt{84}$

10. **±9.17**

11) x value of 5 and radius of 10. Find the value of y.
$y^2 = 10^2 - 5^2$
$y = \pm\sqrt{75}$

11. **±8.66**

12) x value of 4 and radius of 8. Find the value of y.
$y^2 = 8^2 - 4^2$
$y = \pm\sqrt{48}$

12. **±6.93**

13) x value of 3 and radius of 8. Find the value of y.
$y^2 = 8^2 - 3^2$
$y = \pm\sqrt{55}$

13. **±7.42**

14) x value of 3 and radius of 6. Find the value of y.
$y^2 = 6^2 - 3^2$
$y = \pm\sqrt{27}$

14. **±5.20**

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

15. **±7.42**

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Name:

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3. _____

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

4. _____

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

5. _____

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

6. _____

7. _____

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

8. _____

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

9. _____

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

10. _____

11. _____

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

12. _____

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

13. _____

14. _____

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

15. _____

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

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

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

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

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Name:

Solve each problem. Round to two decimal places.

Answers

1) y value of 4 and radius of 6. Find the value of x.
$x^2 = 6^2 - 4^2$
$x = \pm\sqrt{20}$

1. **±4.47**

2) y value of 5 and radius of 7. Find the value of x.
$x^2 = 7^2 - 5^2$
$x = \pm\sqrt{24}$

2. **±4.90**

3) y value of 4 and radius of 7. Find the value of x.
$x^2 = 7^2 - 4^2$
$x = \pm\sqrt{33}$

3. **±5.74**

4) y value of 4 and radius of 10. Find the value of x.
$x^2 = 10^2 - 4^2$
$x = \pm\sqrt{84}$

4. **±9.17**

5) y value of 2 and radius of 9. Find the value of x.
$x^2 = 9^2 - 2^2$
$x = \pm\sqrt{77}$

5. **±8.77**

6) x value of 2 and y value of 4. Find the radius.
$r^2 = 2^2 + 4^2$
$r = \pm\sqrt{7}$

6. **±4.47**

7) x value of 3 and radius of 10. Find the value of y.
$y^2 = 10^2 - 3^2$
$y = \pm\sqrt{91}$

7. **±9.54**

8) x value of 4 and radius of 10. Find the value of y.
$y^2 = 10^2 - 4^2$
$y = \pm\sqrt{84}$

8. **±9.17**

9) y value of 5 and radius of 6. Find the value of x.
$x^2 = 6^2 - 5^2$
$x = \pm\sqrt{11}$

9. **±3.32**

10) x value of 2 and y value of 2. Find the radius.
$r^2 = 2^2 + 2^2$
$r = \pm\sqrt{8}$

10. **±2.83**

11) x value of 4 and y value of 4. Find the radius.
$r^2 = 4^2 + 4^2$
$r = \pm\sqrt{8}$

11. **±5.66**

12) x value of 4 and y value of 2. Find the radius.
$r^2 = 4^2 + 2^2$
$r = \pm\sqrt{6}$

12. **±4.47**

13) y value of 5 and radius of 7. Find the value of x.
$x^2 = 7^2 - 5^2$
$x = \pm\sqrt{24}$

13. **±4.90**

14) x value of 4 and radius of 6. Find the value of y.
$y^2 = 6^2 - 4^2$
$y = \pm\sqrt{20}$

14. **±4.47**

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

15. **±5.39**

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Name:

Answers

Solve each problem. Round to two decimal places.

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

1. _____

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

2. _____

3. _____

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

4. _____

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

5. _____

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

6. _____

7. _____

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

8. _____

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

9. _____

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

10. _____

11. _____

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

12. _____

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

13. _____

14. _____

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

15. _____

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

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

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

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

1-10	93	87	80	73	67	60	53	47	40	33
11-15	27	20	13	7	0					

Solving Circle Equations

Solve each problem. Round to two decimal places.

1) x value of 2 and y value of 2. Find the radius.
$r^2 = 2^2 + 2^2$
$r = \pm\sqrt{9}$

1. **±2.83**

2) x value of 3 and radius of 6. Find the value of y.
$y^2 = 6^2 - 3^2$
$y = \pm\sqrt{27}$

2. **±5.20**

3) x value of 4 and radius of 6. Find the value of y.
$y^2 = 6^2 - 4^2$
$y = \pm\sqrt{20}$

3. **±4.47**

4) y value of 2 and radius of 7. Find the value of x.
$x^2 = 7^2 - 2^2$
$x = \pm\sqrt{45}$

4. **±6.71**

5) x value of 3 and y value of 4. Find the radius.
$r^2 = 3^2 + 4^2$
$r = \pm\sqrt{7}$

5. **±5.00**

6) x value of 4 and y value of 5. Find the radius.
$r^2 = 4^2 + 5^2$
$r = \pm\sqrt{9}$

6. **±6.40**

7) y value of 2 and radius of 6. Find the value of x.
$x^2 = 6^2 - 2^2$
$x = \pm\sqrt{32}$

7. **±5.66**

8) x value of 3 and radius of 6. Find the value of y.
$y^2 = 6^2 - 3^2$
$y = \pm\sqrt{27}$

8. **±5.20**

9) x value of 3 and y value of 4. Find the radius.
$r^2 = 3^2 + 4^2$
$r = \pm\sqrt{7}$

9. **±5.00**

10) x value of 3 and y value of 5. Find the radius.
$r^2 = 3^2 + 5^2$
$r = \pm\sqrt{6}$

10. **±5.83**

11) x value of 5 and radius of 8. Find the value of y.
$y^2 = 8^2 - 5^2$
$y = \pm\sqrt{39}$

11. **±6.24**

12) y value of 5 and radius of 9. Find the value of x.
$x^2 = 9^2 - 5^2$
$x = \pm\sqrt{56}$

12. **±7.48**

13) x value of 5 and y value of 4. Find the radius.
$r^2 = 5^2 + 4^2$
$r = \pm\sqrt{8}$

13. **±6.40**

14) y value of 2 and radius of 8. Find the value of x.
$x^2 = 8^2 - 2^2$
$x = \pm\sqrt{60}$

14. **±7.75**

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

15. **±5.20**

| 1-10 | 93 | 87 | 80 | 73 | 67 | 60 | 53 | 47 | 40 | 33 |
| 11-15 | 27 | 20 | 13 | 7 | 0 | | | | | |