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.

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

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 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**

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

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 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.
$r^2 = 3^2 + 2^2$
$r = \pm\sqrt{7}$

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.
$r^2 = 4^2 + 2^2$
$r = \pm\sqrt{8}$

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.
$r^2 = 3^2 + 5^2$
$r = \pm\sqrt{10}$

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.
$r^2 = 3^2 + 5^2$
$r = \pm\sqrt{10}$

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**

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 3 and y value of 2. Find the radius.

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

3) y value of 3 and x value of 7.42. Find the radius.

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

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

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

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

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

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

10) y value of 5 and x value of 6.24. Find the radius.

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

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

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

Answers

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

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

2) y value of 2 and x value of 5.66. Find the radius.
$x^2 = 6^2 - 2^2$
$x = \pm\sqrt{32}$

3) y value of 3 and x value of 7.42. Find the radius.
$x^2 = 8^2 - 3^2$
$x = \pm\sqrt{55}$

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

5) y value of 2 and x value of 6.71. Find the radius.
$x^2 = 7^2 - 2^2$
$x = \pm\sqrt{45}$

6) y value of 2 and x value of 9.80. Find the radius.
$x^2 = 10^2 - 2^2$
$x = \pm\sqrt{96}$

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

8) y value of 2 and x value of 5.66. Find the radius.
$x^2 = 6^2 - 2^2$
$x = \pm\sqrt{32}$

9) y value of 3 and x value of 8.49. Find the radius.
$x^2 = 9^2 - 3^2$
$x = \pm\sqrt{72}$

10) y value of 5 and x value of 6.24. Find the radius.
$x^2 = 8^2 - 5^2$
$x = \pm\sqrt{39}$

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

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

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**

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

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 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							

Solve each problem. Round to two decimal places.

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

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) 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**

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 4. Find the radius.

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

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 4. Find the radius.
$r^2 = 2^2 + 4^2$
$r = \pm\sqrt{6}$

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

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

4) y value of 5 and x value of 4.90. Find the radius.
$x^2 = 7^2 - 5^2$
$x = \pm\sqrt{24}$

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 8. Find the value of y.
$y^2 = 8^2 - 4^2$
$y = \pm\sqrt{48}$

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

8) x value of 4 and radius of 9. Find the value of y.
$y^2 = 9^2 - 4^2$
$y = \pm\sqrt{65}$

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

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

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

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

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

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**

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

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) 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.
$r^2 = 5^2 + 3^2$
$r = \pm\sqrt{6}$

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.
$r^2 = 3^2 + 2^2$
$r = \pm\sqrt{10}$

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

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

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.
$r^2 = 3^2 + 3^2$
$r = \pm\sqrt{6}$

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

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

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.
$r^2 = 3^2 + 4^2$
$r = \pm\sqrt{10}$

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

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.

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

3) y value of 3 and x value of 7.42. Find the radius.

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

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

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

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

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

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

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

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

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

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

Answers

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

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.
$r^2 = 5^2 + 4^2$
$r = \pm\sqrt{7}$

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

3) y value of 3 and x value of 7.42. Find the radius.
$x^2 = 8^2 - 3^2$
$x = \pm\sqrt{55}$

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

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

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

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

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

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

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

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. **±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**

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

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) y value of 3 and x value of 6.32. Find the radius.
$x^2 = 7^2 - 3^2$
$x = \pm\sqrt{40}$

2) y value of 3 and x value of 9.54. Find the radius.
$x^2 = 10^2 - 3^2$
$x = \pm\sqrt{91}$

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

4) y value of 4 and x value of 9.17. Find the radius.
$x^2 = 10^2 - 4^2$
$x = \pm\sqrt{84}$

5) y value of 5 and x value of 3.32. Find the radius.
$x^2 = 6^2 - 5^2$
$x = \pm\sqrt{11}$

6) y value of 2 and x value of 7.75. Find the radius.
$x^2 = 8^2 - 2^2$
$x = \pm\sqrt{60}$

7) y value of 4 and x value of 8.06. Find the radius.
$x^2 = 9^2 - 4^2$
$x = \pm\sqrt{65}$

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

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

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

11) y value of 4 and x value of 6.93. Find the radius.
$x^2 = 8^2 - 4^2$
$x = \pm\sqrt{48}$

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

13) y value of 3 and x value of 8.49. Find the radius.
$x^2 = 9^2 - 3^2$
$x = \pm\sqrt{72}$

Answers

1. **±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**

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.

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

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

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

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

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

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

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

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

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

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

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

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

Answers

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

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

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