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.

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

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

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

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

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

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

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

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

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

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

12) x value of 2 and radius of 10. 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							

Solving Circle Equations

Name: **Answer Key**

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

3) y value of 2 and x value of 8.77. Find the radius.
$x^2 = 9^2 - 2^2$
$x = \pm\sqrt{77}$

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

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

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

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

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

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

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

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

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. **±7.75**
3. **±8.77**
4. **±8.06**
5. **±4.47**
6. **±9.80**
7. **±6.40**
8. **±4.90**
9. **±9.17**
10. **±6.93**
11. **±7.07**
12. **±9.80**
13. **±8.06**

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

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

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

8) 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. _____

1-8	88	75	63	50	38	25	13	0