Solving Circle Equations

Name:

Solve each problem. Round to two decimal places.

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

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

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

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

5) x value of 2 and y value of 5. 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 10. Find the value of y.

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

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

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

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

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

13) x value of 2 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							

Solving Circle Equations

Name: **Answer Key**

Solve each problem. Round to two decimal places.

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

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

$x = \pm\sqrt{65}$

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

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

$r = \pm\sqrt{8}$

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

$x^2 = 10^2 - 3^2$

$x = \pm\sqrt{91}$

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

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

$r = \pm\sqrt{7}$

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

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

$r = \pm\sqrt{9}$

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 10. Find the value of y.

$y^2 = 10^2 - 3^2$

$y = \pm\sqrt{91}$

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

$y^2 = 10^2 - 3^2$

$y = \pm\sqrt{91}$

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

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

$y = \pm\sqrt{27}$

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

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

$r = \pm\sqrt{10}$

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

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

$r = \pm\sqrt{7}$

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 2 and y value of 4. Find the radius.

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

$r = \pm\sqrt{8}$

Answers

1. **±8.06**
2. **±4.47**
3. **±9.54**
4. **±7.07**
5. **±5.39**
6. **±8.06**
7. **±9.54**
8. **±9.54**
9. **±5.20**
10. **±5.00**
11. **±5.83**
12. **±6.32**
13. **±4.47**

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

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5) x value of 2 and y value of 5. 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 10. Find the value of y.

8) 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. _____

1-8	88	75	63	50	38	25	13	0