Solving Circle Equations

Name:

Solve each problem. Round to two decimal places.

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

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

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

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

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

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

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

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

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

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

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

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

13) x value of 5 and y value of 3. 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) x value of 4 and radius of 6. Find the value of y.

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

$y = \pm\sqrt{20}$

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

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

$r = \pm\sqrt{8}$

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

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

$r = \pm\sqrt{8}$

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

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

$r = \pm\sqrt{8}$

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

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

$x = \pm\sqrt{72}$

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

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

$r = \pm\sqrt{8}$

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

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

$y = \pm\sqrt{72}$

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

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

$r = \pm\sqrt{6}$

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

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

$y = \pm\sqrt{60}$

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

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

$x = \pm\sqrt{77}$

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

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

$r = \pm\sqrt{7}$

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

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

$r = \pm\sqrt{7}$

Answers

1. **±4.47**
2. **±5.00**
3. **±5.39**
4. **±5.39**
5. **±8.49**
6. **±5.83**
7. **±8.49**
8. **±3.61**
9. **±9.80**
10. **±7.75**
11. **±8.77**
12. **±5.39**
13. **±5.83**

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