Solving Circle Equations Name:

Solve each problem. Round to two decimal places.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

15) y value of 3 and radius of 9. 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					

Solve each problem. Round to two decimal places.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Answers

1. **±8.06**
2. **±6.71**
3. **±9.54**
4. **±5.74**
5. **±5.00**
6. **±2.83**
7. **±9.80**
8. **±8.66**
9. **±4.47**
10. **±6.40**
11. **±5.20**
12. **±3.61**
13. **±7.07**
14. **±8.77**
15. **±8.49**

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