Solving Circle Equations

Name:

Solve each problem. Round to two decimal places.

1) y value of 5 and x value of 8.66. Find the radius.

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

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

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

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

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

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

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

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

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

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

12) y value of 3 and x value of 5.20. Find the radius.

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

14) 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. _____
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) y value of 5 and x value of 8.66. Find the radius.
$x^2 = 10^2 - 5^2$
$x = \pm\sqrt{75}$

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

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

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

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

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

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

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

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

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

12) y value of 3 and x value of 5.20. Find the radius.
$x^2 = 6^2 - 3^2$
$x = \pm\sqrt{27}$

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

14) 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. ±8.66
2. ±6.40
3. ±2.83
4. ±2.83
5. ±7.42
6. ±3.32
7. ±5.66
8. ±4.90
9. ±6.40
10. ±7.48
11. ±3.32
12. ±5.20
13. ±5.39
14. ±8.06
15. ±5.20

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