Solving Circle Equations

Name:

Solve each problem. Round to two decimal places.

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

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

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

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

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

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

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

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

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

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

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

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

13) x value of 3 and radius of 7. 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							

Solve each problem. Round to two decimal places.

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

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

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

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

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

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

7) x value of 4 and y value of 3. Find the radius.
$r^2 = 4^2 + 3^2$
$r = \pm\sqrt{10}$

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

9) y value of 3 and x value of 8.49. Find the radius.
$x^2 = 9^2 - 3^2$
$x = \pm\sqrt{72}$

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

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

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

13) x value of 3 and radius of 7. Find the value of y.
$y^2 = 7^2 - 3^2$
$y = \pm\sqrt{40}$

Answers

1. **±5.20**
2. **±4.24**
3. **±8.77**
4. **±8.66**
5. **±9.54**
6. **±7.48**
7. **±5.00**
8. **±8.66**
9. **±8.49**
10. **±5.00**
11. **±5.66**
12. **±6.93**
13. **±6.32**

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