Solving Circle Equations

Name:

Solve each problem. Round to two decimal places.

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

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

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

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

5) y value of 3 and x value of 6.32. Find the radius.

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

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

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

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

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

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

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

13) y value of 2 and x value of 9.80. Find the radius.

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							

　Name:

Solve each problem. Round to two decimal places.

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

1. **±6.32**

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

2. **±5.20**

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

3. **±8.49**

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

4. **±3.61**

5) y value of 3 and x value of 6.32. Find the radius.
$x^2 = 7^2 - 3^2$
$x = \pm\sqrt{40}$

5. **±6.32**

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

6. **±4.47**

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

7. **±5.74**

8) y value of 4 and x value of 8.06. Find the radius.
$x^2 = 9^2 - 4^2$
$x = \pm\sqrt{65}$

8. **±8.06**

9) x value of 5 and radius of 8. Find the value of y.
$y^2 = 8^2 - 5^2$
$y = \pm\sqrt{39}$

9. **±6.24**

10) x value of 4 and radius of 10. Find the value of y.
$y^2 = 10^2 - 4^2$
$y = \pm\sqrt{84}$

10. **±9.17**

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

11. **±8.49**

12) y value of 2 and x value of 8.77. Find the radius.
$x^2 = 9^2 - 2^2$
$x = \pm\sqrt{77}$

12. **±8.77**

13) y value of 2 and x value of 9.80. Find the radius.
$x^2 = 10^2 - 2^2$
$x = \pm\sqrt{96}$

13. **±9.80**

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