Solve each problem. Round to two decimal places.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

4) x value of 4 and y value of 3. Find the radius.
$r^2 = 4^2 + 3^2$
$r = \pm\sqrt{8}$

5) x value of 5 and y value of 4. Find the radius.
$r^2 = 5^2 + 4^2$
$r = \pm\sqrt{7}$

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

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

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

10) x value of 3 and y value of 4. Find the radius.
$r^2 = 3^2 + 4^2$
$r = \pm\sqrt{6}$

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

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

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

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

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

Answers

1. **±5.66**
2. **±8.06**
3. **±7.42**
4. **±5.00**
5. **±6.40**
6. **±7.42**
7. **±8.49**
8. **±5.66**
9. **±6.71**
10. **±5.00**
11. **±4.47**
12. **±5.83**
13. **±7.48**
14. **±6.24**
15. **±3.61**

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