



Solve each problem. Round to two decimal places.

- 1) x value of 3 and y value of 3. Find the radius.
- 2) x value of 3 and radius of 9. Find the value of y.
- 3) y value of 4 and radius of 10. Find the value of x.
- 4) x value of 5 and y value of 3. Find the radius.
- 5) x value of 2 and radius of 9. Find the value of y.
- 6) x value of 5 and radius of 7. Find the value of y.
- 7) x value of 3 and y value of 2. Find the radius.
- 8) x value of 2 and radius of 7. Find the value of y.
- 9) y value of 2 and radius of 10. Find the value of x.
- 10) x value of 4 and radius of 10. Find the value of y.
- 11) x value of 5 and radius of 10. Find the value of y.
- 12) x value of 4 and radius of 8. Find the value of y.
- 13) x value of 3 and radius of 8. Find the value of y.
- 14) x value of 3 and radius of 6. Find the value of y.
- 15) y value of 3 and radius of 8. Find the value of x.

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



Solve each problem. Round to two decimal places.

- 1) x value of 3 and y value of 3. Find the radius.  
 $r^2 = 3^2 + 3^2$   
 $r = \pm\sqrt{10}$
- 2) x value of 3 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 3^2$   
 $y = \pm\sqrt{72}$
- 3) y value of 4 and radius of 10. Find the value of x.  
 $x^2 = 10^2 - 4^2$   
 $x = \pm\sqrt{84}$
- 4) x value of 5 and y value of 3. Find the radius.  
 $r^2 = 5^2 + 3^2$   
 $r = \pm\sqrt{6}$
- 5) x value of 2 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 2^2$   
 $y = \pm\sqrt{77}$
- 6) x value of 5 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 5^2$   
 $y = \pm\sqrt{24}$
- 7) x value of 3 and y value of 2. Find the radius.  
 $r^2 = 3^2 + 2^2$   
 $r = \pm\sqrt{9}$
- 8) x value of 2 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 2^2$   
 $y = \pm\sqrt{45}$
- 9) y value of 2 and radius of 10. Find the value of x.  
 $x^2 = 10^2 - 2^2$   
 $x = \pm\sqrt{96}$
- 10) x value of 4 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 4^2$   
 $y = \pm\sqrt{84}$
- 11) x value of 5 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 5^2$   
 $y = \pm\sqrt{75}$
- 12) x value of 4 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 4^2$   
 $y = \pm\sqrt{48}$
- 13) x value of 3 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 3^2$   
 $y = \pm\sqrt{55}$
- 14) x value of 3 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 3^2$   
 $y = \pm\sqrt{27}$
- 15) y value of 3 and radius of 8. Find the value of x.

Answers

1.  $\pm 4.24$
2.  $\pm 8.49$
3.  $\pm 9.17$
4.  $\pm 5.83$
5.  $\pm 8.77$
6.  $\pm 4.90$
7.  $\pm 3.61$
8.  $\pm 6.71$
9.  $\pm 9.80$
10.  $\pm 9.17$
11.  $\pm 8.66$
12.  $\pm 6.93$
13.  $\pm 7.42$
14.  $\pm 5.20$
15.  $\pm 7.42$