

**Solve each problem. Round to two decimal places.****Answers**

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

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15. \_\_\_\_\_



Solve each problem. Round to two decimal places.

Answers

- 1) x value of 3 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 3^2$   
 $y = \pm\sqrt{55}$
- 2) x value of 2 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 2^2$   
 $y = \pm\sqrt{96}$
- 3) x value of 3 and y value of 5. Find the radius.  
 $r^2 = 3^2 + 5^2$   
 $r = \pm\sqrt{7}$
- 4) y value of 4 and radius of 8. Find the value of x.  
 $x^2 = 8^2 - 4^2$   
 $x = \pm\sqrt{48}$
- 5) y value of 4 and radius of 10. Find the value of x.  
 $x^2 = 10^2 - 4^2$   
 $x = \pm\sqrt{84}$
- 6) x value of 4 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 4^2$   
 $y = \pm\sqrt{20}$
- 7) y value of 5 and radius of 7. Find the value of x.  
 $x^2 = 7^2 - 5^2$   
 $x = \pm\sqrt{24}$
- 8) x value of 4 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 4^2$   
 $y = \pm\sqrt{48}$
- 9) y value of 2 and radius of 9. Find the value of x.  
 $x^2 = 9^2 - 2^2$   
 $x = \pm\sqrt{77}$
- 10) x value of 4 and y value of 5. Find the radius.  
 $r^2 = 4^2 + 5^2$   
 $r = \pm\sqrt{6}$
- 11) y value of 3 and radius of 6. Find the value of x.  
 $x^2 = 6^2 - 3^2$   
 $x = \pm\sqrt{27}$
- 12) x value of 4 and y value of 5. Find the radius.  
 $r^2 = 4^2 + 5^2$   
 $r = \pm\sqrt{9}$
- 13) y value of 2 and radius of 10. Find the value of x.  
 $x^2 = 10^2 - 2^2$   
 $x = \pm\sqrt{96}$
- 14) x value of 3 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 3^2$   
 $y = \pm\sqrt{72}$
- 15) x value of 3 and y value of 4. Find the radius.

1.  $\pm 7.42$
2.  $\pm 9.80$
3.  $\pm 5.83$
4.  $\pm 6.93$
5.  $\pm 9.17$
6.  $\pm 4.47$
7.  $\pm 4.90$
8.  $\pm 6.93$
9.  $\pm 8.77$
10.  $\pm 6.40$
11.  $\pm 5.20$
12.  $\pm 6.40$
13.  $\pm 9.80$
14.  $\pm 8.49$
15.  $\pm 5.00$