



Solve each problem. Round to two decimal places.

- 1)  $x$  value of 3 and radius of 9. Find the value of  $y$ .
- 2)  $x$  value of 3 and  $y$  value of 2. Find the radius.
- 3)  $x$  value of 2 and  $y$  value of 2. Find the radius.
- 4)  $x$  value of 4 and radius of 9. Find the value of  $y$ .
- 5)  $x$  value of 4 and  $y$  value of 2. Find the radius.
- 6)  $y$  value of 4 and  $x$  value of 8.06. Find the radius.
- 7)  $x$  value of 3 and radius of 6. Find the value of  $y$ .
- 8)  $x$  value of 3 and  $y$  value of 5. Find the radius.
- 9)  $x$  value of 2 and radius of 10. Find the value of  $y$ .
- 10)  $x$  value of 4 and radius of 7. Find the value of  $y$ .
- 11)  $x$  value of 3 and radius of 8. Find the value of  $y$ .
- 12)  $x$  value of 3 and  $y$  value of 5. Find the radius.
- 13)  $y$  value of 2 and  $x$  value of 5.66. Find the radius.

Answers

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



Solve each problem. Round to two decimal places.

- 1) x value of 3 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 3^2$   
 $y = \pm\sqrt{72}$
- 2) x value of 3 and y value of 2. Find the radius.  
 $r^2 = 3^2 + 2^2$   
 $r = \pm\sqrt{7}$
- 3) x value of 2 and y value of 2. Find the radius.  
 $r^2 = 2^2 + 2^2$   
 $r = \pm\sqrt{8}$
- 4) x value of 4 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 4^2$   
 $y = \pm\sqrt{65}$
- 5) x value of 4 and y value of 2. Find the radius.  
 $r^2 = 4^2 + 2^2$   
 $r = \pm\sqrt{8}$
- 6) y value of 4 and x value of 8.06. Find the radius.  
 $x^2 = 9^2 - 4^2$   
 $x = \pm\sqrt{65}$
- 7) x value of 3 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 3^2$   
 $y = \pm\sqrt{27}$
- 8) x value of 3 and y value of 5. Find the radius.  
 $r^2 = 3^2 + 5^2$   
 $r = \pm\sqrt{10}$
- 9) x value of 2 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 2^2$   
 $y = \pm\sqrt{96}$
- 10) x value of 4 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 4^2$   
 $y = \pm\sqrt{33}$
- 11) x value of 3 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 3^2$   
 $y = \pm\sqrt{55}$
- 12) x value of 3 and y value of 5. Find the radius.  
 $r^2 = 3^2 + 5^2$   
 $r = \pm\sqrt{10}$
- 13) y value of 2 and x value of 5.66. Find the radius.  
 $x^2 = 6^2 - 2^2$   
 $x = \pm\sqrt{32}$

Answers

1. ±8.49
2. ±3.61
3. ±2.83
4. ±8.06
5. ±4.47
6. ±8.06
7. ±5.20
8. ±5.83
9. ±9.80
10. ±5.74
11. ±7.42
12. ±5.83
13. ±5.66