



Solve each problem. Round to two decimal places.

- 1)  $y$  value of 2 and  $x$  value of 7.75. Find the radius.
- 2)  $x$  value of 3 and radius of 6. Find the value of  $y$ .
- 3)  $x$  value of 2 and  $y$  value of 3. Find the radius.
- 4)  $x$  value of 3 and radius of 6. Find the value of  $y$ .
- 5)  $x$  value of 2 and  $y$  value of 2. Find the radius.
- 6)  $x$  value of 5 and radius of 10. Find the value of  $y$ .
- 7)  $y$  value of 4 and  $x$  value of 4.47. Find the radius.
- 8)  $y$  value of 3 and  $x$  value of 6.32. Find the radius.
- 9)  $x$  value of 2 and radius of 6. Find the value of  $y$ .
- 10)  $x$  value of 2 and  $y$  value of 3. Find the radius.
- 11)  $x$  value of 4 and  $y$  value of 3. Find the radius.
- 12)  $x$  value of 5 and  $y$  value of 3. Find the radius.
- 13)  $x$  value of 2 and  $y$  value of 2. 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) y value of 2 and x value of 7.75. Find the radius.  
 $x^2 = 8^2 - 2^2$   
 $x = \pm\sqrt{60}$
- 2) x value of 3 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 3^2$   
 $y = \pm\sqrt{27}$
- 3) x value of 2 and y value of 3. Find the radius.  
 $r^2 = 2^2 + 3^2$   
 $r = \pm\sqrt{10}$
- 4) x value of 3 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 3^2$   
 $y = \pm\sqrt{27}$
- 5) x value of 2 and y value of 2. Find the radius.  
 $r^2 = 2^2 + 2^2$   
 $r = \pm\sqrt{8}$
- 6) x value of 5 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 5^2$   
 $y = \pm\sqrt{75}$
- 7) y value of 4 and x value of 4.47. Find the radius.  
 $x^2 = 6^2 - 4^2$   
 $x = \pm\sqrt{20}$
- 8) y value of 3 and x value of 6.32. Find the radius.  
 $x^2 = 7^2 - 3^2$   
 $x = \pm\sqrt{40}$
- 9) x value of 2 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 2^2$   
 $y = \pm\sqrt{32}$
- 10) x value of 2 and y value of 3. Find the radius.  
 $r^2 = 2^2 + 3^2$   
 $r = \pm\sqrt{9}$
- 11) x value of 4 and y value of 3. Find the radius.  
 $r^2 = 4^2 + 3^2$   
 $r = \pm\sqrt{9}$
- 12) x value of 5 and y value of 3. Find the radius.  
 $r^2 = 5^2 + 3^2$   
 $r = \pm\sqrt{7}$
- 13) x value of 2 and y value of 2. Find the radius.  
 $r^2 = 2^2 + 2^2$   
 $r = \pm\sqrt{8}$

Answers

1. ±7.75
2. ±5.20
3. ±3.61
4. ±5.20
5. ±2.83
6. ±8.66
7. ±4.47
8. ±6.32
9. ±5.66
10. ±3.61
11. ±5.00
12. ±5.83
13. ±2.83