



Solve each problem. Round to two decimal places.

- 1)  $y$  value of 3 and  $x$  value of 6.32. Find the radius.
- 2)  $y$  value of 3 and  $x$  value of 9.54. Find the radius.
- 3)  $x$  value of 4 and radius of 10. Find the value of  $y$ .
- 4)  $y$  value of 4 and  $x$  value of 9.17. Find the radius.
- 5)  $y$  value of 5 and  $x$  value of 3.32. Find the radius.
- 6)  $y$  value of 2 and  $x$  value of 7.75. Find the radius.
- 7)  $y$  value of 4 and  $x$  value of 8.06. Find the radius.
- 8)  $x$  value of 3 and radius of 6. Find the value of  $y$ .
- 9)  $x$  value of 5 and  $y$  value of 3. Find the radius.
- 10)  $x$  value of 2 and radius of 10. Find the value of  $y$ .
- 11)  $y$  value of 4 and  $x$  value of 6.93. Find the radius.
- 12)  $x$  value of 4 and radius of 7. Find the value of  $y$ .
- 13)  $y$  value of 3 and  $x$  value of 8.49. 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 3 and x value of 6.32. Find the radius.  
 $x^2 = 7^2 - 3^2$   
 $x = \pm\sqrt{40}$
- 2) y value of 3 and x value of 9.54. Find the radius.  
 $x^2 = 10^2 - 3^2$   
 $x = \pm\sqrt{91}$
- 3) x value of 4 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 4^2$   
 $y = \pm\sqrt{84}$
- 4) y value of 4 and x value of 9.17. Find the radius.  
 $x^2 = 10^2 - 4^2$   
 $x = \pm\sqrt{84}$
- 5) y value of 5 and x value of 3.32. Find the radius.  
 $x^2 = 6^2 - 5^2$   
 $x = \pm\sqrt{11}$
- 6) y value of 2 and x value of 7.75. Find the radius.  
 $x^2 = 8^2 - 2^2$   
 $x = \pm\sqrt{60}$
- 7) y value of 4 and x value of 8.06. Find the radius.  
 $x^2 = 9^2 - 4^2$   
 $x = \pm\sqrt{65}$
- 8) x value of 3 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 3^2$   
 $y = \pm\sqrt{27}$
- 9) x value of 5 and y value of 3. Find the radius.  
 $r^2 = 5^2 + 3^2$   
 $r = \pm\sqrt{10}$
- 10) x value of 2 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 2^2$   
 $y = \pm\sqrt{96}$
- 11) y value of 4 and x value of 6.93. Find the radius.  
 $x^2 = 8^2 - 4^2$   
 $x = \pm\sqrt{48}$
- 12) x value of 4 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 4^2$   
 $y = \pm\sqrt{33}$
- 13) y value of 3 and x value of 8.49. Find the radius.  
 $x^2 = 9^2 - 3^2$   
 $x = \pm\sqrt{72}$

Answers

1. ±6.32
2. ±9.54
3. ±9.17
4. ±9.17
5. ±3.32
6. ±7.75
7. ±8.06
8. ±5.20
9. ±5.83
10. ±9.80
11. ±6.93
12. ±5.74
13. ±8.49