



Solve each problem. Round to two decimal places.

- 1) x value of 3 and y value of 2. Find the radius.
- 2) y value of 2 and x value of 5.66. Find the radius.
- 3) y value of 3 and x value of 7.42. Find the radius.
- 4) x value of 4 and y value of 5. Find the radius.
- 5) y value of 2 and x value of 6.71. Find the radius.
- 6) y value of 2 and x value of 9.80. Find the radius.
- 7) x value of 3 and y value of 4. Find the radius.
- 8) y value of 2 and x value of 5.66. Find the radius.
- 9) y value of 3 and x value of 8.49. Find the radius.
- 10) y value of 5 and x value of 6.24. Find the radius.
- 11) x value of 3 and radius of 8. Find the value of y.
- 12) x value of 4 and y value of 2. Find the radius.
- 13) x value of 3 and radius of 10. Find the value of y.

**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 y value of 2. Find the radius.  
 $r^2 = 3^2 + 2^2$   
 $r = \pm\sqrt{6}$
- 2) y value of 2 and x value of 5.66. Find the radius.  
 $x^2 = 6^2 - 2^2$   
 $x = \pm\sqrt{32}$
- 3) y value of 3 and x value of 7.42. Find the radius.  
 $x^2 = 8^2 - 3^2$   
 $x = \pm\sqrt{55}$
- 4) x value of 4 and y value of 5. Find the radius.  
 $r^2 = 4^2 + 5^2$   
 $r = \pm\sqrt{7}$
- 5) y value of 2 and x value of 6.71. Find the radius.  
 $x^2 = 7^2 - 2^2$   
 $x = \pm\sqrt{45}$
- 6) y value of 2 and x value of 9.80. Find the radius.  
 $x^2 = 10^2 - 2^2$   
 $x = \pm\sqrt{96}$
- 7) x value of 3 and y value of 4. Find the radius.  
 $r^2 = 3^2 + 4^2$   
 $r = \pm\sqrt{7}$
- 8) y value of 2 and x value of 5.66. Find the radius.  
 $x^2 = 6^2 - 2^2$   
 $x = \pm\sqrt{32}$
- 9) y value of 3 and x value of 8.49. Find the radius.  
 $x^2 = 9^2 - 3^2$   
 $x = \pm\sqrt{72}$
- 10) y value of 5 and x value of 6.24. Find the radius.  
 $x^2 = 8^2 - 5^2$   
 $x = \pm\sqrt{39}$
- 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 4 and y value of 2. Find the radius.  
 $r^2 = 4^2 + 2^2$   
 $r = \pm\sqrt{6}$
- 13) x value of 3 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 3^2$   
 $y = \pm\sqrt{91}$

Answers

1. ±3.61
2. ±5.66
3. ±7.42
4. ±6.40
5. ±6.71
6. ±9.80
7. ±5.00
8. ±5.66
9. ±8.49
10. ±6.24
11. ±7.42
12. ±4.47
13. ±9.54