



Solve each problem. Round to two decimal places.

- 1) x value of 2 and y value of 4. Find the radius.
- 2) x value of 5 and radius of 6. Find the value of y.
- 3) x value of 3 and radius of 7. Find the value of y.
- 4) y value of 5 and x value of 4.90. Find the radius.
- 5) y value of 3 and x value of 6.32. Find the radius.
- 6) x value of 4 and radius of 8. Find the value of y.
- 7) x value of 5 and radius of 8. Find the value of y.
- 8) x value of 4 and radius of 9. Find the value of y.
- 9) x value of 3 and y value of 5. Find the radius.
- 10) x value of 5 and radius of 6. Find the value of y.
- 11) x value of 5 and radius of 9. Find the value of y.
- 12) x value of 3 and radius of 8. Find the value of y.
- 13) x value of 4 and y value of 5. 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 2 and y value of 4. Find the radius.  
 $r^2 = 2^2 + 4^2$   
 $r = \pm\sqrt{6}$
- 2) x value of 5 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 5^2$   
 $y = \pm\sqrt{11}$
- 3) x value of 3 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 3^2$   
 $y = \pm\sqrt{40}$
- 4) y value of 5 and x value of 4.90. Find the radius.  
 $x^2 = 7^2 - 5^2$   
 $x = \pm\sqrt{24}$
- 5) y value of 3 and x value of 6.32. Find the radius.  
 $x^2 = 7^2 - 3^2$   
 $x = \pm\sqrt{40}$
- 6) x value of 4 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 4^2$   
 $y = \pm\sqrt{48}$
- 7) x value of 5 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 5^2$   
 $y = \pm\sqrt{39}$
- 8) x value of 4 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 4^2$   
 $y = \pm\sqrt{65}$
- 9) x value of 3 and y value of 5. Find the radius.  
 $r^2 = 3^2 + 5^2$   
 $r = \pm\sqrt{6}$
- 10) x value of 5 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 5^2$   
 $y = \pm\sqrt{11}$
- 11) x value of 5 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 5^2$   
 $y = \pm\sqrt{56}$
- 12) x value of 3 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 3^2$   
 $y = \pm\sqrt{55}$
- 13) x value of 4 and y value of 5. Find the radius.  
 $r^2 = 4^2 + 5^2$   
 $r = \pm\sqrt{10}$

Answers

1. ±4.47
2. ±3.32
3. ±6.32
4. ±4.90
5. ±6.32
6. ±6.93
7. ±6.24
8. ±8.06
9. ±5.83
10. ±3.32
11. ±7.48
12. ±7.42
13. ±6.40