

**Solve each problem. Round to two decimal places.****Answers**

- 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.

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13. _____



Solve each problem. Round to two decimal places.

Answers

- 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.
 $r^2 = 3^2 + 2^2$
 $r = \pm\sqrt{13}$
- 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.
 $r^2 = 4^2 + 2^2$
 $r = \pm\sqrt{20}$
- 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.
 $r^2 = 3^2 + 5^2$
 $r = \pm\sqrt{34}$
- 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.
 $r^2 = 3^2 + 5^2$
 $r = \pm\sqrt{34}$
- 13) y value of 2 and x value of 5.66. Find the radius.
 $x^2 = 6^2 - 2^2$
 $x = \pm\sqrt{32}$

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**