

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

- 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.

1. _____
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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**