



Solve each problem. Round to two decimal places.

- 1)  $y$  value of 2 and radius of 9. Find the value of  $x$ .
- 2)  $x$  value of 3 and  $y$  value of 3. Find the radius.
- 3)  $x$  value of 2 and radius of 8. Find the value of  $y$ .
- 4)  $x$  value of 5 and radius of 9. Find the value of  $y$ .
- 5)  $x$  value of 4 and radius of 10. Find the value of  $y$ .
- 6)  $y$  value of 2 and radius of 10. Find the value of  $x$ .
- 7)  $x$  value of 5 and radius of 7. Find the value of  $y$ .
- 8)  $x$  value of 2 and  $y$  value of 3. Find the radius.
- 9)  $x$  value of 4 and radius of 10. Find the value of  $y$ .
- 10)  $y$  value of 3 and radius of 6. Find the value of  $x$ .
- 11)  $y$  value of 5 and radius of 6. Find the value of  $x$ .
- 12)  $x$  value of 5 and  $y$  value of 3. Find the radius.
- 13)  $x$  value of 4 and  $y$  value of 4. Find the radius.
- 14)  $x$  value of 5 and  $y$  value of 4. Find the radius.
- 15)  $y$  value of 3 and radius of 9. Find the value of  $x$ .

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_



Solve each problem. Round to two decimal places.

- 1) y value of 2 and radius of 9. Find the value of x.

$$x^2 = 9^2 - 2^2$$

$$x = \pm\sqrt{77}$$

- 2) x value of 3 and y value of 3. Find the radius.

$$r^2 = 3^2 + 3^2$$

$$r = \pm\sqrt{6}$$

- 3) x value of 2 and radius of 8. Find the value of y.

$$y^2 = 8^2 - 2^2$$

$$y = \pm\sqrt{60}$$

- 4) x value of 5 and radius of 9. Find the value of y.

$$y^2 = 9^2 - 5^2$$

$$y = \pm\sqrt{56}$$

- 5) x value of 4 and radius of 10. Find the value of y.

$$y^2 = 10^2 - 4^2$$

$$y = \pm\sqrt{84}$$

- 6) y value of 2 and radius of 10. Find the value of x.

$$x^2 = 10^2 - 2^2$$

$$x = \pm\sqrt{96}$$

- 7) x value of 5 and radius of 7. Find the value of y.

$$y^2 = 7^2 - 5^2$$

$$y = \pm\sqrt{24}$$

- 8) x value of 2 and y value of 3. Find the radius.

$$r^2 = 2^2 + 3^2$$

$$r = \pm\sqrt{10}$$

- 9) x value of 4 and radius of 10. Find the value of y.

$$y^2 = 10^2 - 4^2$$

$$y = \pm\sqrt{84}$$

- 10) y value of 3 and radius of 6. Find the value of x.

$$x^2 = 6^2 - 3^2$$

$$x = \pm\sqrt{27}$$

- 11) y value of 5 and radius of 6. Find the value of x.

$$x^2 = 6^2 - 5^2$$

$$x = \pm\sqrt{11}$$

- 12) x value of 5 and y value of 3. Find the radius.

$$r^2 = 5^2 + 3^2$$

$$r = \pm\sqrt{8}$$

- 13) x value of 4 and y value of 4. Find the radius.

$$r^2 = 4^2 + 4^2$$

$$r = \pm\sqrt{9}$$

- 14) x value of 5 and y value of 4. Find the radius.

$$r^2 = 5^2 + 4^2$$

$$r = \pm\sqrt{9}$$

- 15) y value of 3 and radius of 9. Find the value of x.

**Answers**

1.  $\pm 8.77$

2.  $\pm 4.24$

3.  $\pm 7.75$

4.  $\pm 7.48$

5.  $\pm 9.17$

6.  $\pm 9.80$

7.  $\pm 4.90$

8.  $\pm 3.61$

9.  $\pm 9.17$

10.  $\pm 5.20$

11.  $\pm 3.32$

12.  $\pm 5.83$

13.  $\pm 5.66$

14.  $\pm 6.40$

15.  $\pm 8.49$