



Solve each problem. Round to two decimal places.

- 1)  $x$  value of 3 and radius of 7. Find the value of  $y$ .
- 2)  $x$  value of 3 and radius of 6. Find the value of  $y$ .
- 3)  $y$  value of 3 and  $x$  value of 8.49. Find the radius.
- 4)  $x$  value of 3 and  $y$  value of 2. 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 6. Find the value of  $y$ .
- 7)  $x$  value of 4 and radius of 7. Find the value of  $y$ .
- 8)  $y$  value of 4 and  $x$  value of 8.06. Find the radius.
- 9)  $x$  value of 5 and radius of 8. Find the value of  $y$ .
- 10)  $x$  value of 4 and radius of 10. Find the value of  $y$ .
- 11)  $x$  value of 3 and radius of 9. Find the value of  $y$ .
- 12)  $y$  value of 2 and  $x$  value of 8.77. Find the radius.
- 13)  $y$  value of 2 and  $x$  value of 9.80. Find the radius.

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
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Solve each problem. Round to two decimal places.

- 1) x value of 3 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 3^2$   
 $y = \pm\sqrt{40}$
- 2) x value of 3 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 3^2$   
 $y = \pm\sqrt{27}$
- 3) y value of 3 and x value of 8.49. Find the radius.  
 $x^2 = 9^2 - 3^2$   
 $x = \pm\sqrt{72}$
- 4) x value of 3 and y value of 2. Find the radius.  
 $r^2 = 3^2 + 2^2$   
 $r = \pm\sqrt{9}$
- 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 6. Find the value of y.  
 $y^2 = 6^2 - 4^2$   
 $y = \pm\sqrt{20}$
- 7) x value of 4 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 4^2$   
 $y = \pm\sqrt{33}$
- 8) y value of 4 and x value of 8.06. Find the radius.  
 $x^2 = 9^2 - 4^2$   
 $x = \pm\sqrt{65}$
- 9) x value of 5 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 5^2$   
 $y = \pm\sqrt{39}$
- 10) x value of 4 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 4^2$   
 $y = \pm\sqrt{84}$
- 11) x value of 3 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 3^2$   
 $y = \pm\sqrt{72}$
- 12) y value of 2 and x value of 8.77. Find the radius.  
 $x^2 = 9^2 - 2^2$   
 $x = \pm\sqrt{77}$
- 13) y value of 2 and x value of 9.80. Find the radius.  
 $x^2 = 10^2 - 2^2$   
 $x = \pm\sqrt{96}$

Answers

1. ±6.32
2. ±5.20
3. ±8.49
4. ±3.61
5. ±6.32
6. ±4.47
7. ±5.74
8. ±8.06
9. ±6.24
10. ±9.17
11. ±8.49
12. ±8.77
13. ±9.80



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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Solve each problem. Round to two decimal places.

- 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.  
 $x^2 = 6^2 - 2^2$   
 $x = \pm\sqrt{32}$

Answers

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



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. \_\_\_\_\_
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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



Solve each problem. Round to two decimal places.

Answers

- 1) x value of 3 and radius of 6. Find the value of y.
- 2) x value of 2 and y value of 3. Find the radius.
- 3) x value of 4 and radius of 7. Find the value of y.
- 4) x value of 4 and radius of 10. Find the value of y.
- 5) x value of 4 and y value of 2. Find the radius.
- 6) x value of 2 and radius of 8. Find the value of y.
- 7) x value of 2 and radius of 8. Find the value of y.
- 8) x value of 5 and y value of 4. Find the radius.
- 9) x value of 5 and y value of 3. Find the radius.
- 10) x value of 2 and y value of 3. Find the radius.
- 11) x value of 3 and radius of 9. Find the value of y.
- 12) x value of 4 and y value of 5. Find the radius.
- 13) y value of 5 and x value of 4.90. Find the radius.

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Solve each problem. Round to two decimal places.

- 1) x value of 3 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 3^2$   
 $y = \pm\sqrt{27}$
- 2) x value of 2 and y value of 3. Find the radius.  
 $r^2 = 2^2 + 3^2$   
 $r = \pm\sqrt{9}$
- 3) x value of 4 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 4^2$   
 $y = \pm\sqrt{33}$
- 4) x value of 4 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 4^2$   
 $y = \pm\sqrt{84}$
- 5) x value of 4 and y value of 2. Find the radius.  
 $r^2 = 4^2 + 2^2$   
 $r = \pm\sqrt{7}$
- 6) x value of 2 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 2^2$   
 $y = \pm\sqrt{60}$
- 7) x value of 2 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 2^2$   
 $y = \pm\sqrt{60}$
- 8) x value of 5 and y value of 4. Find the radius.  
 $r^2 = 5^2 + 4^2$   
 $r = \pm\sqrt{10}$
- 9) x value of 5 and y value of 3. Find the radius.  
 $r^2 = 5^2 + 3^2$   
 $r = \pm\sqrt{8}$
- 10) x value of 2 and y value of 3. Find the radius.  
 $r^2 = 2^2 + 3^2$   
 $r = \pm\sqrt{8}$
- 11) x value of 3 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 3^2$   
 $y = \pm\sqrt{72}$
- 12) x value of 4 and y value of 5. Find the radius.  
 $r^2 = 4^2 + 5^2$   
 $r = \pm\sqrt{7}$
- 13) y value of 5 and x value of 4.90. Find the radius.  
 $x^2 = 7^2 - 5^2$   
 $x = \pm\sqrt{24}$

Answers

1. ±5.20
2. ±3.61
3. ±5.74
4. ±9.17
5. ±4.47
6. ±7.75
7. ±7.75
8. ±6.40
9. ±5.83
10. ±3.61
11. ±8.49
12. ±6.40
13. ±4.90





Solve each problem. Round to two decimal places.

Answers

- 1)  $y$  value of 2 and  $x$  value of 7.75. Find the radius.
- 2)  $x$  value of 3 and radius of 6. Find the value of  $y$ .
- 3)  $x$  value of 2 and  $y$  value of 3. Find the radius.
- 4)  $x$  value of 3 and radius of 6. Find the value of  $y$ .
- 5)  $x$  value of 2 and  $y$  value of 2. Find the radius.
- 6)  $x$  value of 5 and radius of 10. Find the value of  $y$ .
- 7)  $y$  value of 4 and  $x$  value of 4.47. Find the radius.
- 8)  $y$  value of 3 and  $x$  value of 6.32. Find the radius.
- 9)  $x$  value of 2 and radius of 6. Find the value of  $y$ .
- 10)  $x$  value of 2 and  $y$  value of 3. Find the radius.
- 11)  $x$  value of 4 and  $y$  value of 3. Find the radius.
- 12)  $x$  value of 5 and  $y$  value of 3. Find the radius.
- 13)  $x$  value of 2 and  $y$  value of 2. Find the radius.

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- 13. \_\_\_\_\_



Solve each problem. Round to two decimal places.

- 1) y value of 2 and x value of 7.75. Find the radius.  
 $x^2 = 8^2 - 2^2$   
 $x = \pm\sqrt{60}$
- 2) x value of 3 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 3^2$   
 $y = \pm\sqrt{27}$
- 3) x value of 2 and y value of 3. Find the radius.  
 $r^2 = 2^2 + 3^2$   
 $r = \pm\sqrt{10}$
- 4) x value of 3 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 3^2$   
 $y = \pm\sqrt{27}$
- 5) x value of 2 and y value of 2. Find the radius.  
 $r^2 = 2^2 + 2^2$   
 $r = \pm\sqrt{8}$
- 6) x value of 5 and radius of 10. Find the value of y.  
 $y^2 = 10^2 - 5^2$   
 $y = \pm\sqrt{75}$
- 7) y value of 4 and x value of 4.47. Find the radius.  
 $x^2 = 6^2 - 4^2$   
 $x = \pm\sqrt{20}$
- 8) y value of 3 and x value of 6.32. Find the radius.  
 $x^2 = 7^2 - 3^2$   
 $x = \pm\sqrt{40}$
- 9) x value of 2 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 2^2$   
 $y = \pm\sqrt{32}$
- 10) x value of 2 and y value of 3. Find the radius.  
 $r^2 = 2^2 + 3^2$   
 $r = \pm\sqrt{9}$
- 11) x value of 4 and y value of 3. Find the radius.  
 $r^2 = 4^2 + 3^2$   
 $r = \pm\sqrt{9}$
- 12) x value of 5 and y value of 3. Find the radius.  
 $r^2 = 5^2 + 3^2$   
 $r = \pm\sqrt{7}$
- 13) x value of 2 and y value of 2. Find the radius.  
 $r^2 = 2^2 + 2^2$   
 $r = \pm\sqrt{8}$

Answers

1. ±7.75
2. ±5.20
3. ±3.61
4. ±5.20
5. ±2.83
6. ±8.66
7. ±4.47
8. ±6.32
9. ±5.66
10. ±3.61
11. ±5.00
12. ±5.83
13. ±2.83



Solve each problem. Round to two decimal places.

Answers

- 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.

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- 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



Solve each problem. Round to two decimal places.

Answers

- 1) y value of 2 and x value of 6.71. Find the radius.
- 2) x value of 2 and y value of 2. Find the radius.
- 3) x value of 5 and y value of 3. Find the radius.
- 4) x value of 5 and radius of 6. Find the value of y.
- 5) x value of 3 and y value of 2. Find the radius.
- 6) x value of 4 and y value of 3. Find the radius.
- 7) x value of 2 and y value of 2. Find the radius.
- 8) x value of 2 and radius of 9. Find the value of y.
- 9) x value of 3 and y value of 3. Find the radius.
- 10) x value of 4 and y value of 3. Find the radius.
- 11) x value of 2 and y value of 5. Find the radius.
- 12) y value of 3 and x value of 9.54. Find the radius.
- 13) x value of 3 and y value of 4. Find the radius.

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Solve each problem. Round to two decimal places.

- 1) y value of 2 and x value of 6.71. Find the radius.

$$x^2 = 7^2 - 2^2$$

$$x = \pm\sqrt{45}$$

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

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

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

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

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

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

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

$$y^2 = 6^2 - 5^2$$

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

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

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

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

- 6) x value of 4 and y value of 3. Find the radius.

$$r^2 = 4^2 + 3^2$$

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

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

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

$$r = \pm\sqrt{7}$$

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

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

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

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

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

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

- 10) x value of 4 and y value of 3. Find the radius.

$$r^2 = 4^2 + 3^2$$

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

- 11) x value of 2 and y value of 5. Find the radius.

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

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

- 12) y value of 3 and x value of 9.54. Find the radius.

$$x^2 = 10^2 - 3^2$$

$$x = \pm\sqrt{91}$$

- 13) x value of 3 and y value of 4. Find the radius.

$$r^2 = 3^2 + 4^2$$

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

Answers

1. ±6.71

2. ±2.83

3. ±5.83

4. ±3.32

5. ±3.61

6. ±5.00

7. ±2.83

8. ±8.77

9. ±4.24

10. ±5.00

11. ±5.39

12. ±9.54

13. ±5.00



Solve each problem. Round to two decimal places.

Answers

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

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
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- 11. \_\_\_\_\_
- 12. \_\_\_\_\_
- 13. \_\_\_\_\_



Solve each problem. Round to two decimal places.

- 1) x value of 5 and y value of 4. Find the radius.  
 $r^2 = 5^2 + 4^2$   
 $r = \pm\sqrt{41}$
- 2) x value of 4 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 4^2$   
 $y = \pm\sqrt{33}$
- 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 3. Find the radius.  
 $r^2 = 4^2 + 3^2$   
 $r = \pm\sqrt{25}$
- 5) x value of 5 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 5^2$   
 $y = \pm\sqrt{56}$
- 6) x value of 5 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 5^2$   
 $y = \pm\sqrt{56}$
- 7) x value of 2 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 2^2$   
 $y = \pm\sqrt{32}$
- 8) x value of 2 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 2^2$   
 $y = \pm\sqrt{60}$
- 9) x value of 5 and y value of 4. Find the radius.  
 $r^2 = 5^2 + 4^2$   
 $r = \pm\sqrt{41}$
- 10) x value of 5 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 5^2$   
 $y = \pm\sqrt{39}$
- 11) x value of 4 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 4^2$   
 $y = \pm\sqrt{20}$
- 12) x value of 2 and radius of 6. Find the value of y.  
 $y^2 = 6^2 - 2^2$   
 $y = \pm\sqrt{32}$
- 13) x value of 4 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 4^2$   
 $y = \pm\sqrt{65}$

Answers

1. ±6.40
2. ±5.74
3. ±7.42
4. ±5.00
5. ±7.48
6. ±7.48
7. ±5.66
8. ±7.75
9. ±6.40
10. ±6.24
11. ±4.47
12. ±5.66
13. ±8.06





Solve each problem. Round to two decimal places.

- 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.

Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
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



Solve each problem. Round to two decimal places.

Answers

- 1) x value of 2 and y value of 5. Find the radius.
- 2) x value of 3 and y value of 5. Find the radius.
- 3) y value of 5 and x value of 7.48. Find the radius.
- 4) x value of 4 and y value of 3. Find the radius.
- 5) x value of 4 and y value of 3. Find the radius.
- 6) x value of 2 and y value of 3. Find the radius.
- 7) x value of 5 and y value of 5. Find the radius.
- 8) x value of 5 and y value of 5. Find the radius.
- 9) y value of 4 and x value of 5.74. Find the radius.
- 10) x value of 2 and radius of 8. Find the value of y.
- 11) x value of 2 and radius of 8. Find the value of y.
- 12) x value of 3 and radius of 7. Find the value of y.
- 13) x value of 4 and radius of 9. Find the value of y.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
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- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_
- 13. \_\_\_\_\_



Solve each problem. Round to two decimal places.

- 1) x value of 2 and y value of 5. Find the radius.  
 $r^2 = 2^2 + 5^2$   
 $r = \pm\sqrt{29}$
- 2) x value of 3 and y value of 5. Find the radius.  
 $r^2 = 3^2 + 5^2$   
 $r = \pm\sqrt{34}$
- 3) y value of 5 and x value of 7.48. Find the radius.  
 $x^2 = 9^2 - 5^2$   
 $x = \pm\sqrt{56}$
- 4) x value of 4 and y value of 3. Find the radius.  
 $r^2 = 4^2 + 3^2$   
 $r = \pm\sqrt{25}$
- 5) x value of 4 and y value of 3. Find the radius.  
 $r^2 = 4^2 + 3^2$   
 $r = \pm\sqrt{25}$
- 6) x value of 2 and y value of 3. Find the radius.  
 $r^2 = 2^2 + 3^2$   
 $r = \pm\sqrt{13}$
- 7) x value of 5 and y value of 5. Find the radius.  
 $r^2 = 5^2 + 5^2$   
 $r = \pm\sqrt{50}$
- 8) x value of 5 and y value of 5. Find the radius.  
 $r^2 = 5^2 + 5^2$   
 $r = \pm\sqrt{50}$
- 9) y value of 4 and x value of 5.74. Find the radius.  
 $x^2 = 7^2 - 4^2$   
 $x = \pm\sqrt{33}$
- 10) x value of 2 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 2^2$   
 $y = \pm\sqrt{60}$
- 11) x value of 2 and radius of 8. Find the value of y.  
 $y^2 = 8^2 - 2^2$   
 $y = \pm\sqrt{60}$
- 12) x value of 3 and radius of 7. Find the value of y.  
 $y^2 = 7^2 - 3^2$   
 $y = \pm\sqrt{40}$
- 13) x value of 4 and radius of 9. Find the value of y.  
 $y^2 = 9^2 - 4^2$   
 $y = \pm\sqrt{65}$

Answers

1.  $\pm 5.39$
2.  $\pm 5.83$
3.  $\pm 7.48$
4.  $\pm 5.00$
5.  $\pm 5.00$
6.  $\pm 3.61$
7.  $\pm 7.07$
8.  $\pm 7.07$
9.  $\pm 5.74$
10.  $\pm 7.75$
11.  $\pm 7.75$
12.  $\pm 6.32$
13.  $\pm 8.06$