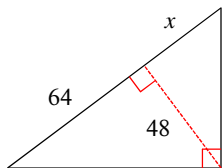


Quiz: Practice Geometric mean, Pythagorean Theorem, 45-45-90 & 30-60-90 Triangles

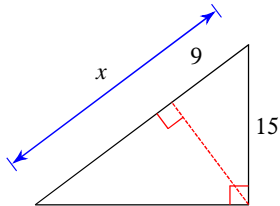
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Find the missing length indicated. Leave your answer in simplest radical form.

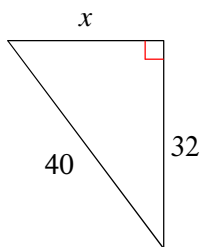
1)



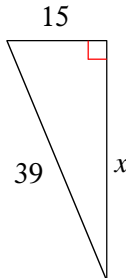
2)

**Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.**

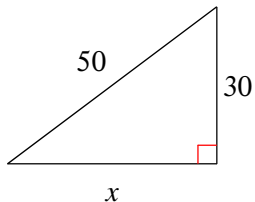
3)



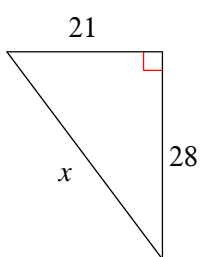
4)



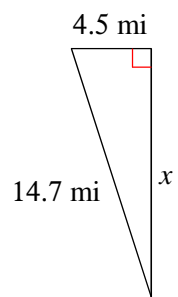
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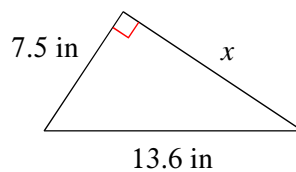
6)



7)

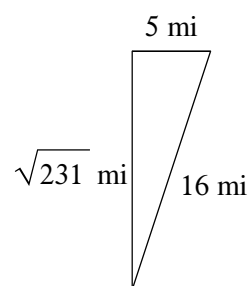


8)

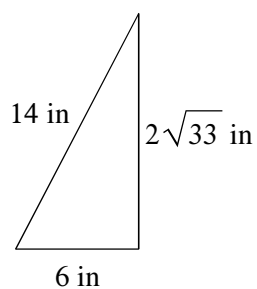


State if each triangle is acute, obtuse, or right.

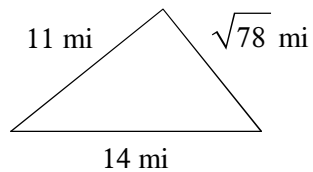
9)



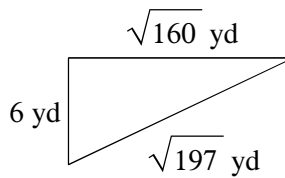
10)



11)

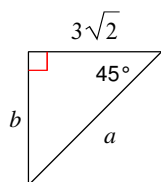


12)

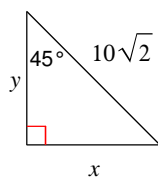


Find the missing side lengths. Leave your answers as radicals in simplest form.

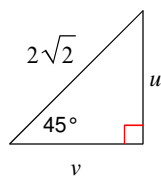
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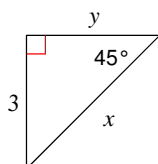
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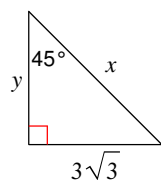
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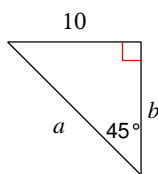
16)



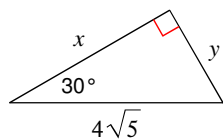
17)



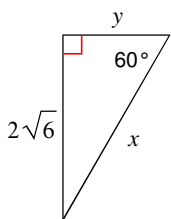
18)



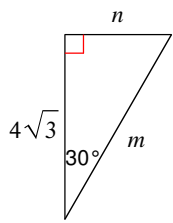
19)



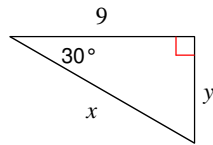
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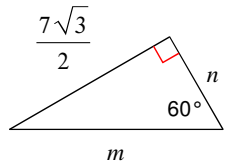
21)



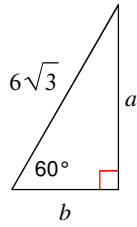
22)



23)



24)



25) Find the geometric mean of 2 and 8.

26) Find the geometric mean of -1 and -100.

27) Find the geometric mean of 50 and 8.

28) Find the geometric mean of 1.5 and 24.

Answers to Quiz: Practice Geometric mean, Pythagorean Theorem, 45-45-90 & 30-60-90 Triangles

- | | | | |
|------------------------------------|------------------------------|-------------------------------------|------------------------------|
| 1) 36 | 2) 25 | 3) 24 | 4) 36 |
| 5) 40 | 6) 35 | 7) 14 mi | 8) 11.3 in |
| 9) Right | 10) Obtuse | 11) Acute | 12) Obtuse |
| 13) $a = 6, b = 3\sqrt{2}$ | 14) $x = 10, y = 10$ | 15) $u = 2, v = 2$ | 16) $x = 3\sqrt{2}, y = 3$ |
| 17) $x = 3\sqrt{6}, y = 3\sqrt{3}$ | 18) $a = 10\sqrt{2}, b = 10$ | 19) $x = 2\sqrt{15}, y = 2\sqrt{5}$ | |
| 20) $x = 4\sqrt{2}, y = 2\sqrt{2}$ | 21) $m = 8, n = 4$ | 22) $x = 6\sqrt{3}, y = 3\sqrt{3}$ | 23) $m = 7, n = \frac{7}{2}$ |
| 24) $a = 9, b = 3\sqrt{3}$ | 25) 0 | 26) 0 | 27) 0 |
| 28) 0 | | | |