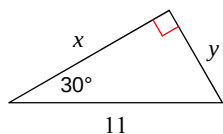
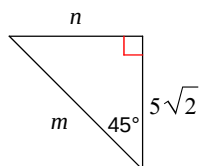


Find the missing side lengths. Leave your answers as radicals in simplest form.

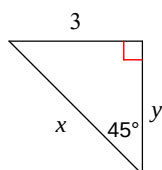
1)



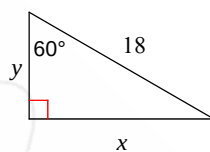
2)



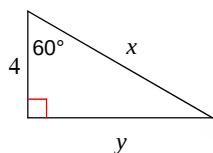
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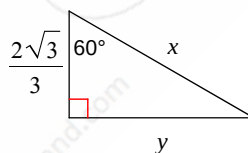
4)



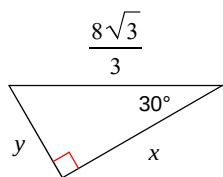
5)



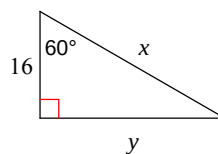
6)



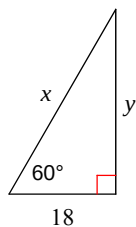
7)



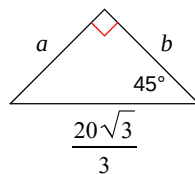
8)



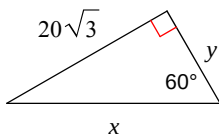
9)



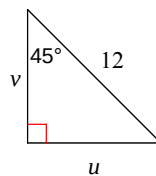
10)



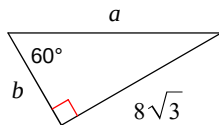
11)



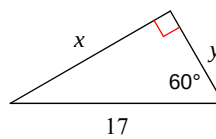
12)



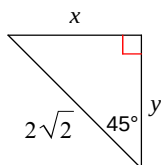
13)



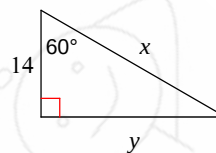
14)



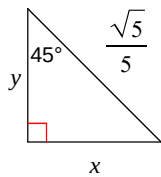
15)



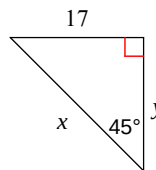
16)



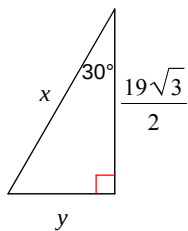
17)



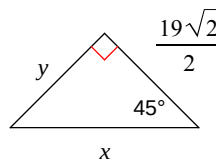
18)



19)



20)



Answers to

- 1) $x = \frac{11\sqrt{3}}{2}, y = \frac{11}{2}$
- 2) $m = 10, n = 5\sqrt{2}$
- 3) $x = 3\sqrt{2}, y = 3$
- 4) $x = 9\sqrt{3}, y = 9$
- 5) $x = 8, y = 4\sqrt{3}$
- 6) $x = \frac{4\sqrt{3}}{3}, y = 2$
- 7) $x = 4, y = \frac{4\sqrt{3}}{3}$
- 8) $x = 32, y = 16\sqrt{3}$
- 9) $x = 36, y = 18\sqrt{3}$
- 10) $a = \frac{10\sqrt{6}}{3}, b = \frac{10\sqrt{6}}{3}$
- 11) $x = 40, y = 20$
- 12) $u = 6\sqrt{2}, v = 6\sqrt{2}$
- 13) $a = 16, b = 8$
- 14) $x = \frac{17\sqrt{3}}{2}, y = \frac{17}{2}$
- 15) $x = 2, y = 2$
- 16) $x = 28, y = 14\sqrt{3}$
- 17) $x = \frac{\sqrt{10}}{10}, y = \frac{\sqrt{10}}{10}$
- 18) $x = 17\sqrt{2}, y = 17$
- 19) $x = 19, y = \frac{19}{2}$
- 20) $x = 19, y = \frac{19\sqrt{2}}{2}$

