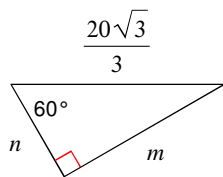


Summer Assignment Review: 30-60-90

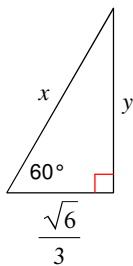
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Find the missing side lengths. Leave your answers as radicals in simplest form.

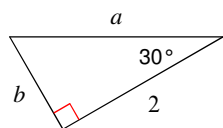
1)



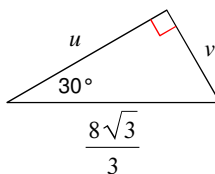
2)



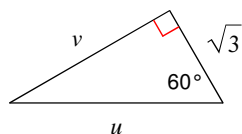
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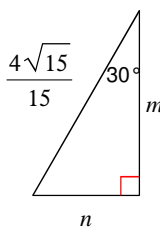
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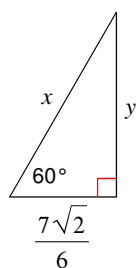
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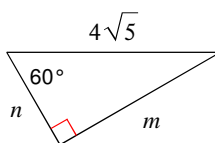
6)



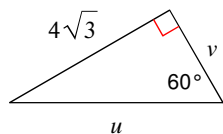
7)



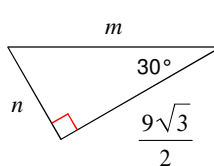
8)



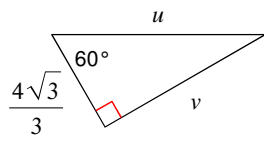
9)



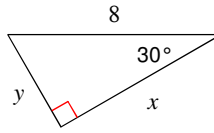
10)



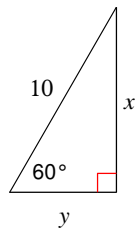
11)



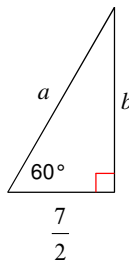
12)



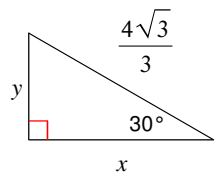
13)



14)



15)



Answers to Summer Assignment Review: 30-60-90

- 1) $m = 10, n = \frac{10\sqrt{3}}{3}$ 2) $x = \frac{2\sqrt{6}}{3}, y = \sqrt{2}$ 3) $a = \frac{4\sqrt{3}}{3}, b = \frac{2\sqrt{3}}{3}$ 4) $u = 4, v = \frac{4\sqrt{3}}{3}$
- 5) $u = 2\sqrt{3}, v = 3$ 6) $m = \frac{2\sqrt{5}}{5}, n = \frac{2\sqrt{15}}{15}$ 7) $x = \frac{7\sqrt{2}}{3}, y = \frac{7\sqrt{6}}{6}$
- 8) $m = 2\sqrt{15}, n = 2\sqrt{5}$ 9) $u = 8, v = 4$ 10) $m = 9, n = \frac{9}{2}$ 11) $u = \frac{8\sqrt{3}}{3}, v = 4$
- 12) $x = 4\sqrt{3}, y = 4$ 13) $x = 5\sqrt{3}, y = 5$ 14) $a = 7, b = \frac{7\sqrt{3}}{2}$ 15) $x = 2, y = \frac{2\sqrt{3}}{3}$