

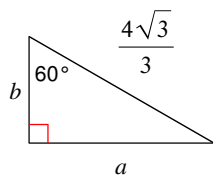
30-60-90 triangles

Date _____ Period _____

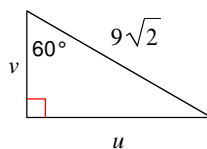
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Find the missing side lengths. Leave your answers as radicals in simplest form.

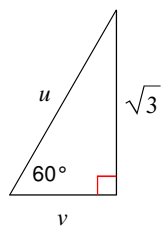
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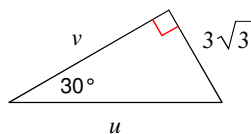
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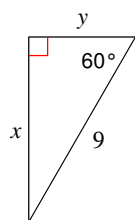
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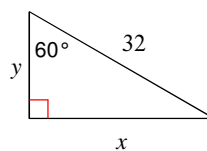
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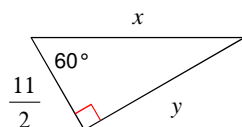
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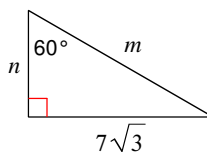
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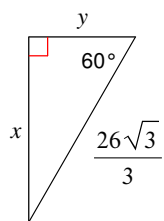
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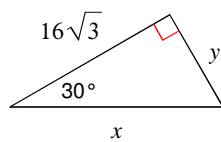
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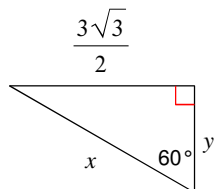
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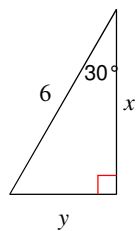
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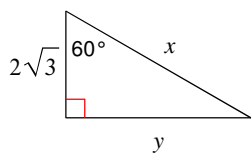
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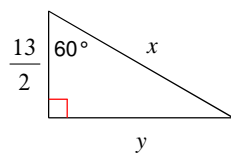
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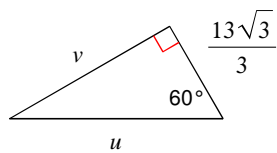
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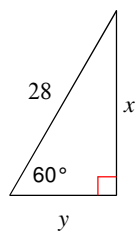
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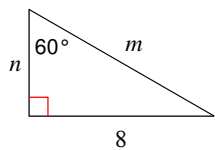
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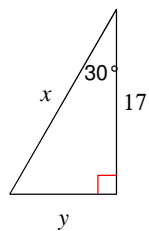
16)



17)



18)



Answers to 30-60-90 triangles

$$1) a = 2, b = \frac{2\sqrt{3}}{3}$$

$$2) u = \frac{9\sqrt{6}}{2}, v = \frac{9\sqrt{2}}{2}$$

$$3) u = 2, v = 1$$

$$4) u = 6\sqrt{3}, v = 9$$

$$5) x = \frac{9\sqrt{3}}{2}, y = \frac{9}{2}$$

$$6) x = 16\sqrt{3}, y = 16$$

$$7) x = 11, y = \frac{11\sqrt{3}}{2}$$

$$8) m = 14, n = 7$$

$$9) x = 13, y = \frac{13\sqrt{3}}{3}$$

$$10) x = 32, y = 16$$

$$11) x = 3, y = \frac{3}{2}$$

$$12) x = 3\sqrt{3}, y = 3$$

$$13) x = 4\sqrt{3}, y = 6$$

$$14) x = 13, y = \frac{13\sqrt{3}}{2}$$

$$15) u = \frac{26\sqrt{3}}{3}, v = 13$$

$$16) x = 14\sqrt{3}, y = 14$$

$$17) m = \frac{16\sqrt{3}}{3}, n = \frac{8\sqrt{3}}{3}$$

$$18) x = \frac{34\sqrt{3}}{3}, y = \frac{17\sqrt{3}}{3}$$