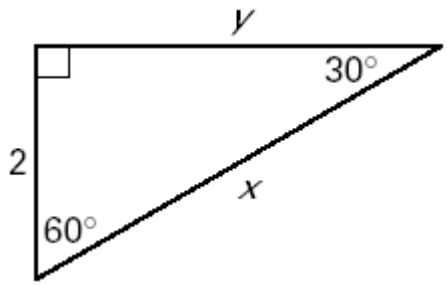
Geometry A
Section 7.4 SRT 30-60-90 Homework

Name : _____
Date : _____ Period : ___

Find the value of each variable. Write your answers in simplest radical form.

1.



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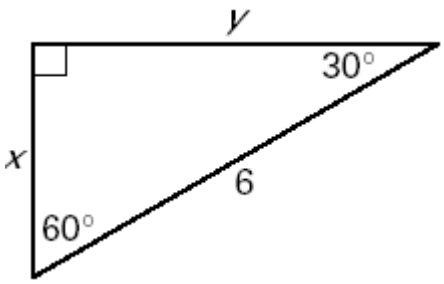

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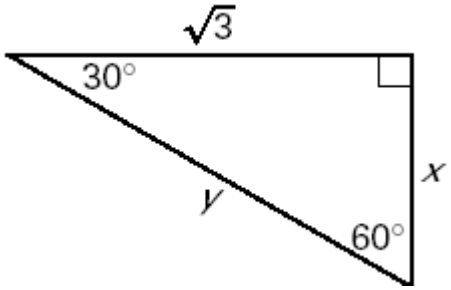

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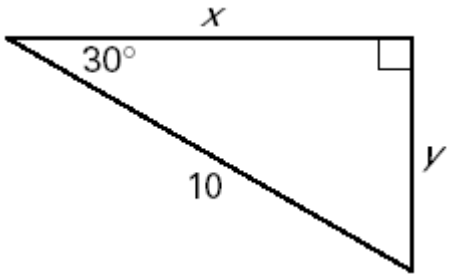

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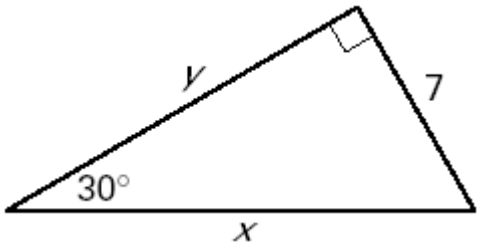

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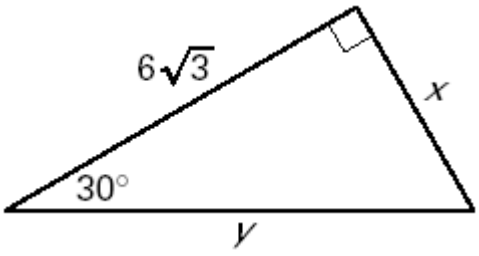

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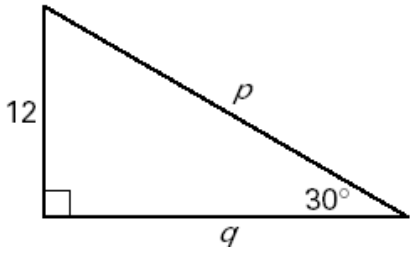

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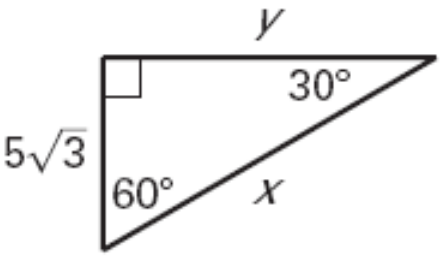
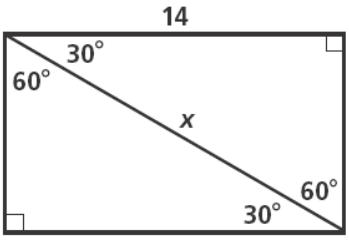


9.



10. In a 30°- 60° - 90° triangle, the shorter leg is 6 ft long. Find the length of the other two sides in simplest radical form.

11. An equilateral triangle has a side length of 8 inches. What is the height of the triangle in simplest radical form?

Answer Key:

1) x = 4, y = $2\sqrt{3}$ 2) x = 3, y = $3\sqrt{3}$ 3) x = 1, y = 2 4) x = $5\sqrt{3}$, y = 5 5) x = 14, y = $7\sqrt{3}$

6) x = 6, y = 12 7) p = 24, q = $12\sqrt{3}$ 8) x = $10\sqrt{3}$, y = 15 9) $x = \frac{28\sqrt{3}}{3}$ 10) long: $6\sqrt{3}$, hyp: 12

11) $4\sqrt{3}$