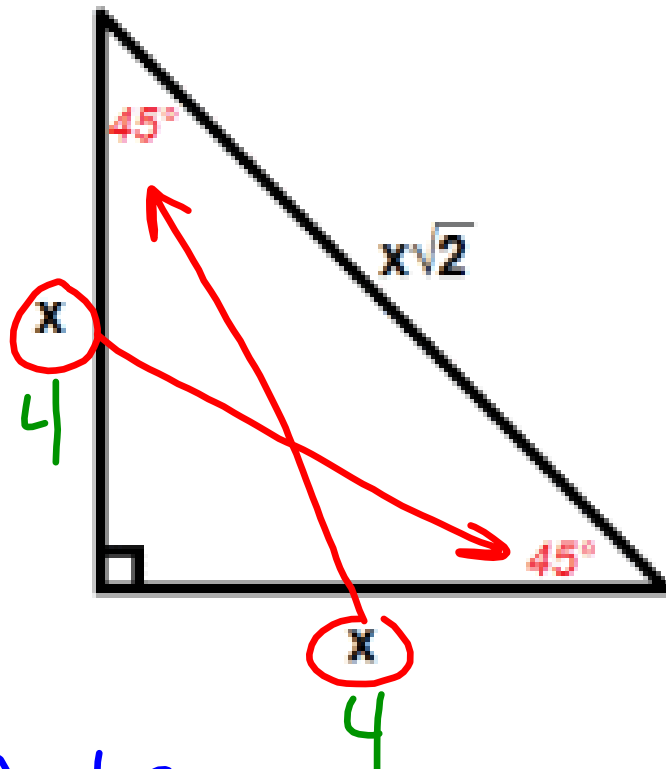


3rd Quarter Khan Academy Skills

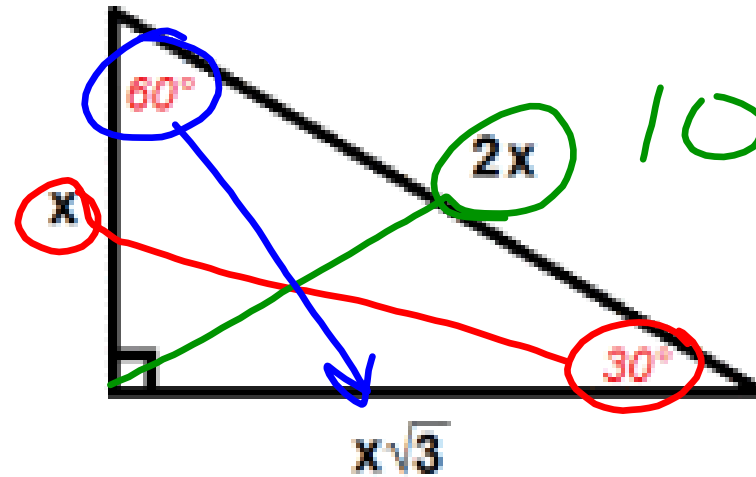
You should be completing the following skills:

TOPIC	Congruence	Similarity	Rt. Triangles & Trig
1	Congruence & transformations	Similarity & transformations	Use Pythagorean theorem to find right triangle side lengths
2	Determine congruent triangles	Determine similar triangles: AA	Use Pythagorean theorem to find isosceles triangle side lengths
3	Find angles in congruent triangles	Determine similar triangles: SSS	Pythagorean theorem challenge
4	Find angles in isosceles triangles	Solve similar triangles (basic)	Special right triangles
5		Solve similar triangles (advanced)	
6		Solve triangles: angle bisector theorem	
7		Use similar & congruent triangles	



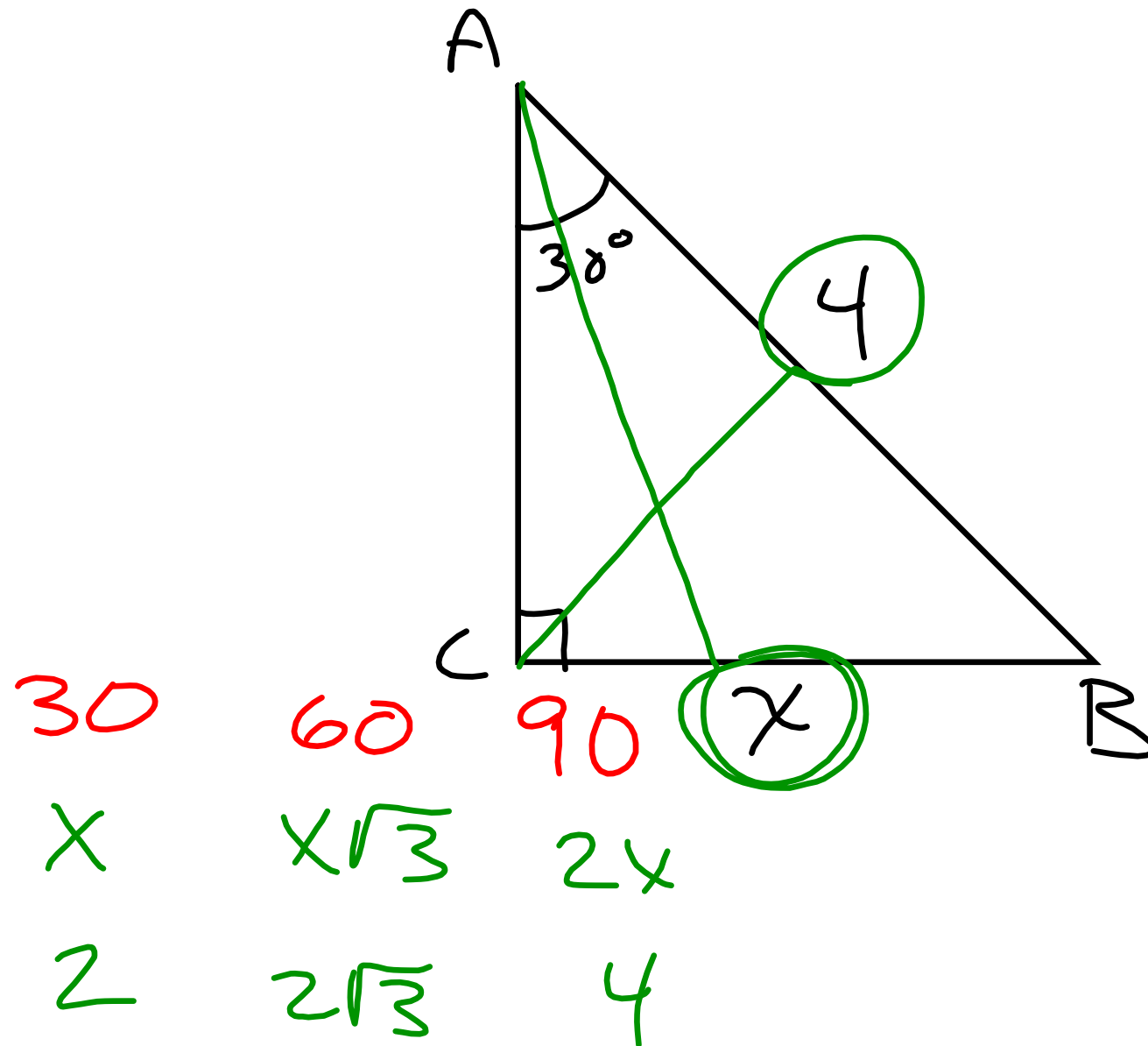
Angles $45^\circ - 45^\circ - 90^\circ$ Triangle

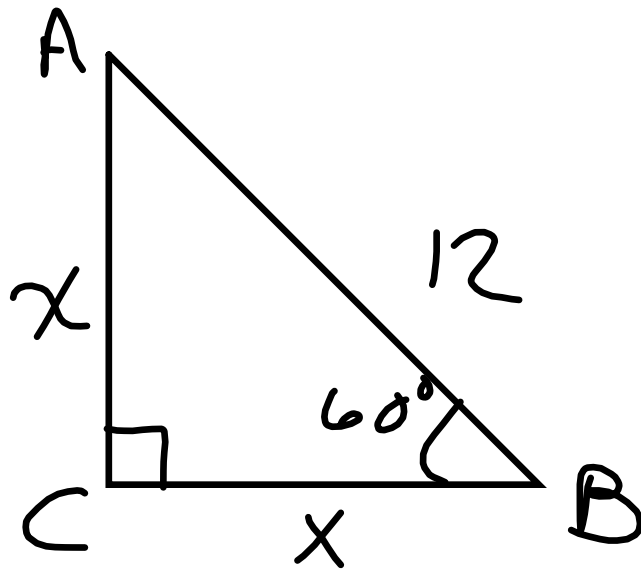
Sides $x \quad x \quad x\sqrt{2}$
 $4 \quad 4 \quad 4\sqrt{2}$



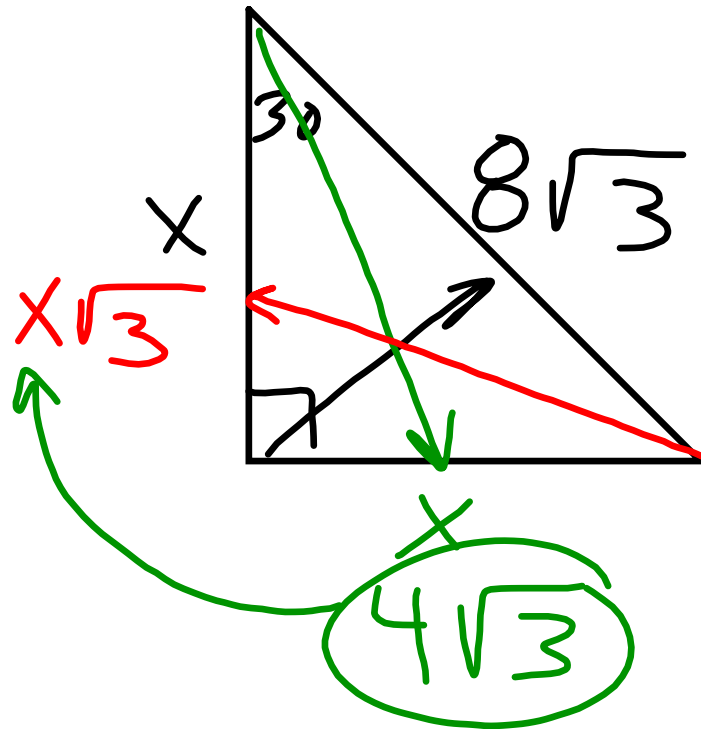
Angles $30^\circ - 60^\circ - 90^\circ$ Triangle

Sides $x \quad x\sqrt{3} \quad 2x$
 $5 \quad 5\sqrt{3} \quad 10$





30	60	90
6	x	12
$x=6$	$x\sqrt{3}$	$2x$



$$\frac{2x}{2} = \frac{8\sqrt{3}}{2}$$

$$x = 4\sqrt{3}$$

$$4\sqrt{3}(\sqrt{3})$$

$$4 \cdot 3$$

$$12$$