Ch 10.6 Solving Right Triangles

***Formulas***:used to find a leg of a triangle

$leg^2 + leg^2 = hyp^2$

$\tan < = \frac{opp}{adj}$

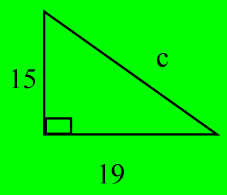
$\sin < = \frac{opp}{hyp}$

$\cos < = \frac{adj}{hyp}$

Apr 23-11:53 AM

Ex1a) Find c:

*round to the tenths.

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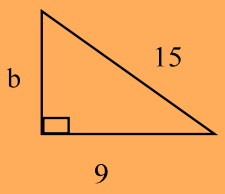
Ex1b) Find b:

*round to the tenths.

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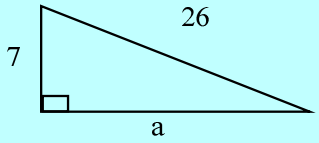
Try #1) Find a:

*round to the tenths.

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Formulas to solve for the angles of a triangle: ***use inverse buttons***

$\tan^{-1} = \frac{opp}{adj}$

$\sin^{-1} = \frac{opp}{hyp}$

$\cos^{-1} = \frac{adj}{hyp}$

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Ex2) use your calculator to find <A. (use inverse button and ask if it makes sense????)

a) $\sin <A = 0.3112$

b) $\cos <A = 0.4492$

c) $\tan < A = 1.265$

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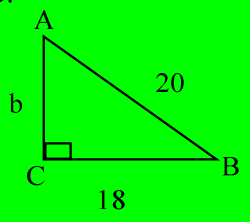
Ex3a) Find b,< A, and <B:
*round to the tenths.

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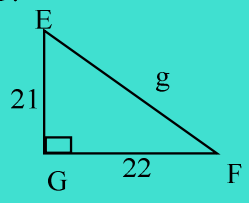
Ex2b) Find g, <E and <F:
*round to the tenths.

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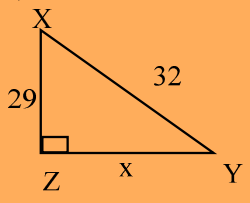
Ex3c) Find x, <X and <Y:
*round to the tenths.

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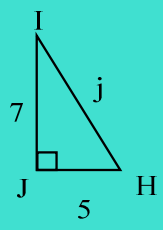
Try#2. Find j, <I, and < H.

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