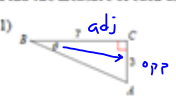
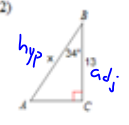


Starter

Find the measure of each angle indicated. Round to the nearest tenth.

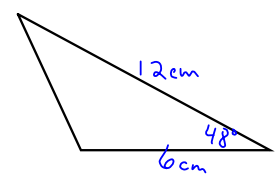
1)  $\tan \theta = \frac{3}{7}$
 $\theta = \tan^{-1}(3/7) = 23.2^\circ$

Find the measure of each side indicated. Round to the nearest tenth.

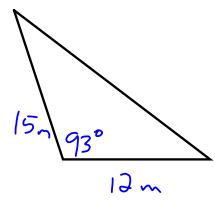
2)  $\cos 34 = \frac{13}{x}$ $x = \frac{13}{\cos 34} = 15.7$
 $x \cos 34 = 13$

5.2 Area of Triangle Sum + Differences $\text{Area} = \frac{1}{2}bc \sin A$

$A = \frac{1}{2} \cdot 6 \cdot 12 \sin 48$
 $A = 26.75 \text{ cm}^2$



Find the area:

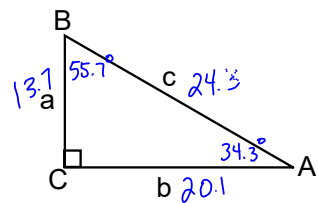


$5 \cdot 12 \cdot 15 \sin 93$
 89.88 m^2

Solve the triangle:

$a=13.7$ $b=20.1$

First: $a^2 + b^2 = c^2$
 $13.7^2 + 20.1^2 = c^2$
 $c = 24.3$

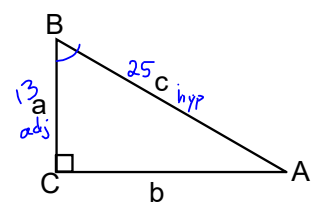


$\tan A = \frac{13.7}{20.1}$ $B = 90 - 34.3 = 55.7^\circ$
 $A = \tan^{-1}(13.7/20.1) = 34.3^\circ$

Solve the triangle:

$a=13$ $c=25$

Use $a^2 + b^2 = c^2$
 $13^2 + b^2 = 25^2$
 $b^2 = 25^2 - 13^2$
 $b = 21.4$



$B = \cos^{-1}(13/25) = 58.7^\circ$ $A = 90 - 58.7 = 31.3^\circ$