Before we begin, are there any questions from last day's work 5.2.1

(Tuesday's quiz will be based on the first three lessons; this includes today's)

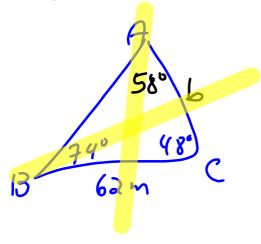
Today's Learning Goal(s):

By the end of the class, I will be able to:

a) solve trigonometry questions involving more than one triangle.

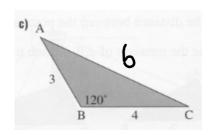
p.62 #8

8. In ΔABC, C is located 62.0 m from B. ∠ABC=74.0° and ∠ACB=48.0°. Determine the measure of side b.



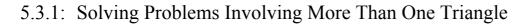
p.70 #1c

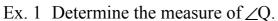
1. Calculate the length of AC in each triangle.

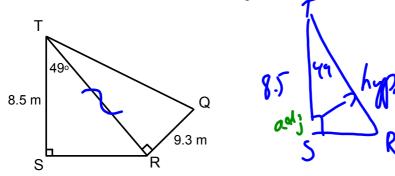


$$b^{2} = 3^{2} + 4^{3} - 2(3)/4) \cos 120^{\circ}$$

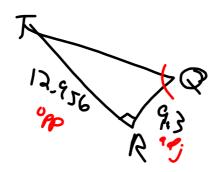
= 37
 $b = \sqrt{37}$



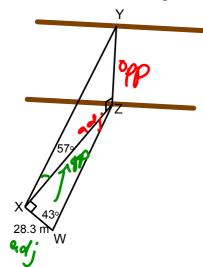




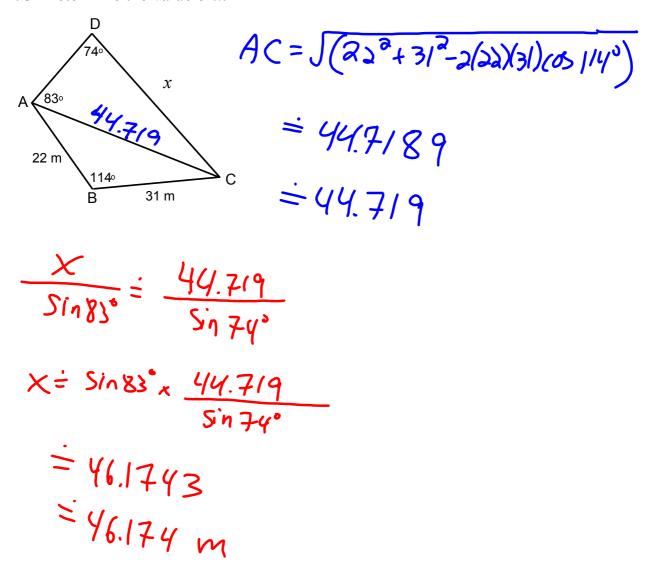
$$CAH$$
 $COSY9^{\circ} = \frac{8.5}{TR}$
 $TR = \frac{8.5}{cos49^{\circ}}$
 $= 13.9561$
 $= 13.956$



Ex. 2 Determine the height of the cliff, in metres.



Ex. 3 Determine the value of x.



Homework 5.3.1 pp.36-40 (1,2) ac, 4, 5, 10, 12, 13 p.71 14, 17