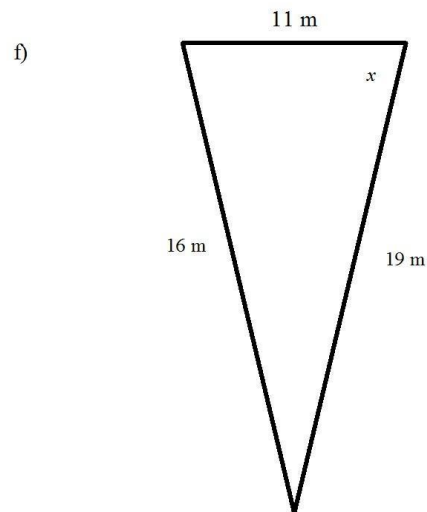
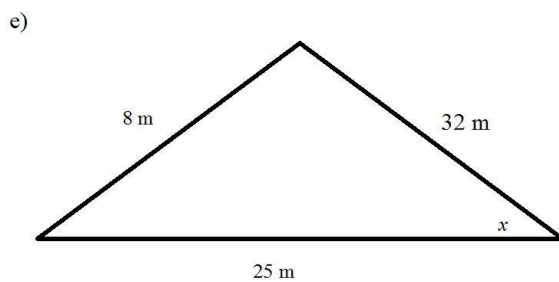
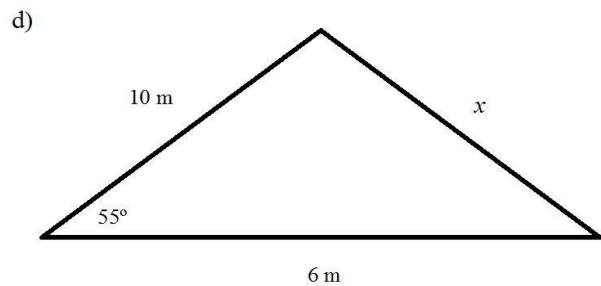
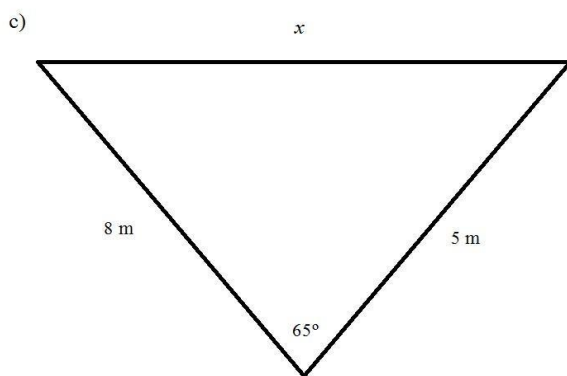
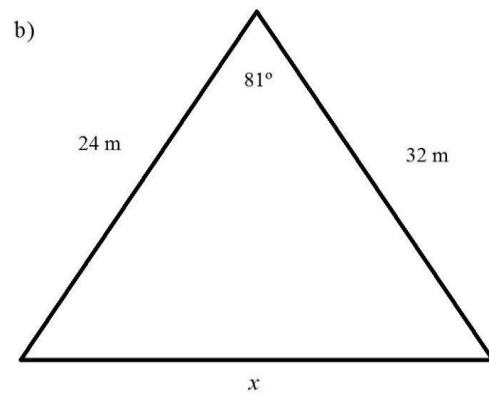
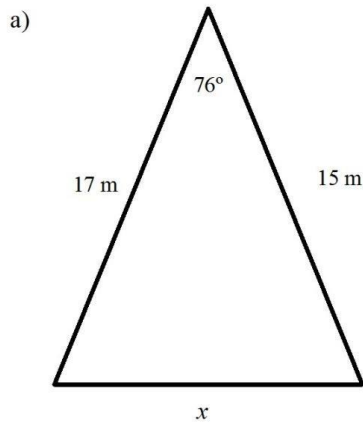


## Cosine Rule

Use the Cosine Rule to find the missing angle or side marked  $x$  :



**Bonus:** Consider a triangle  $\triangle ABC$  with sides  $a$ ,  $b$ , and  $c$  corresponding to the lengths across from each angle  $A$ ,  $B$ , and  $C$ . What is the minimum amount of information (i.e., which sides lengths/angles) do you need in order to solve for the remaining sides/angles?