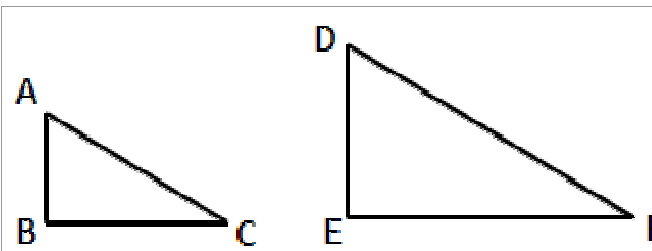


Math 4CST – Angles & Similar Triangles Practice

* ALWAYS REDRAW overlapping or rotated triangles so that they are in the same position!!!

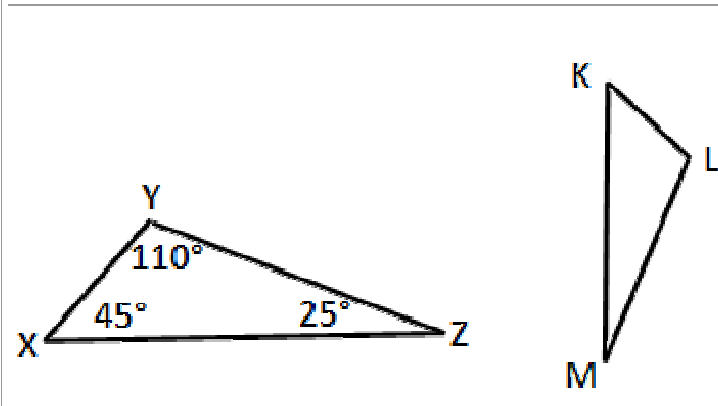
1.



$\angle ABC$ corresponds to _____

$\angle BCA$ corresponds to _____

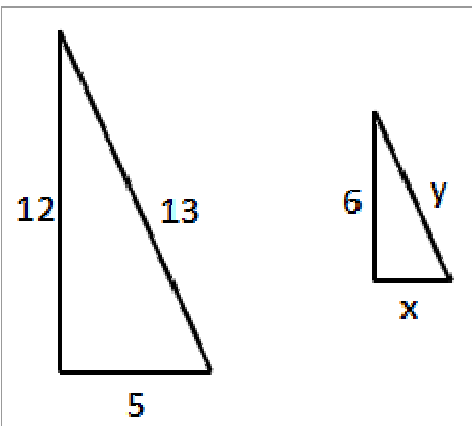
$\angle CAB$ corresponds to _____



$\angle KLM =$ _____

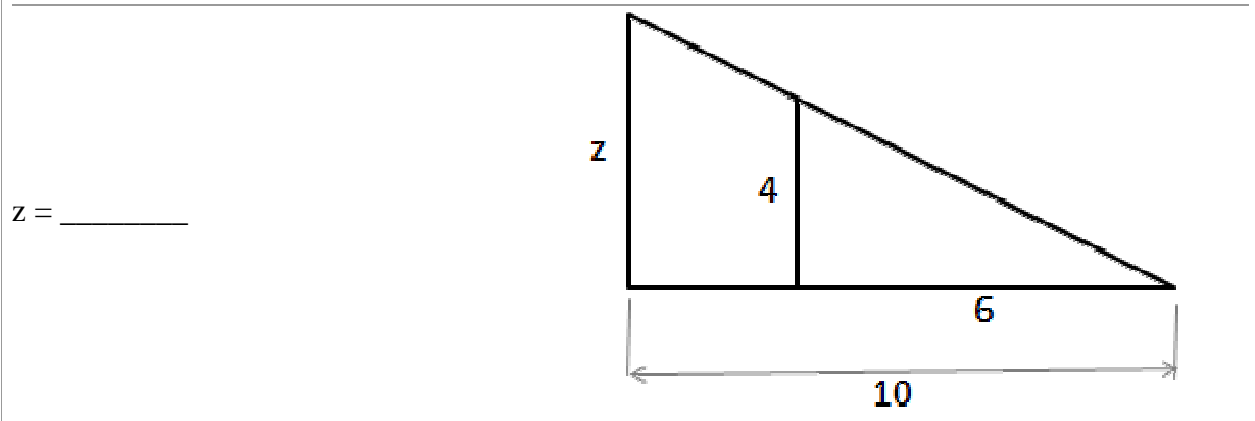
$\angle LMK =$ _____

$\angle MKL =$ _____



$y =$ _____

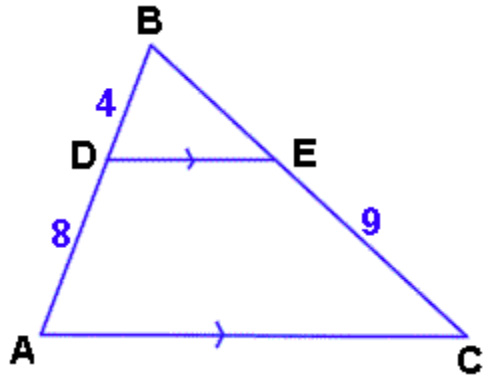
$x =$ _____



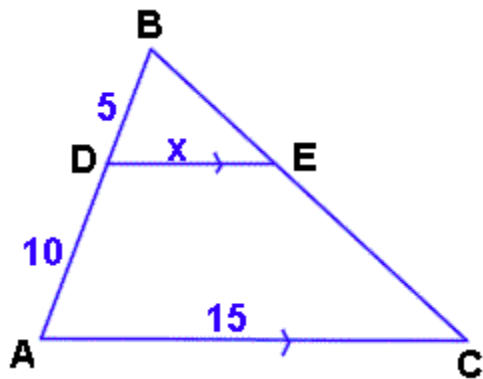
$z =$ _____

* ALWAYS REDRAW overlapping or rotated triangles so that they are in the same position!!!

2. Solve for side BE.

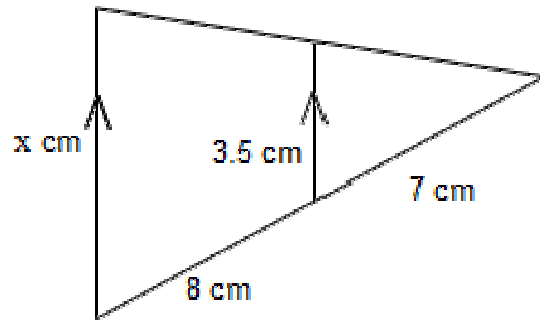


3. Solve for x.

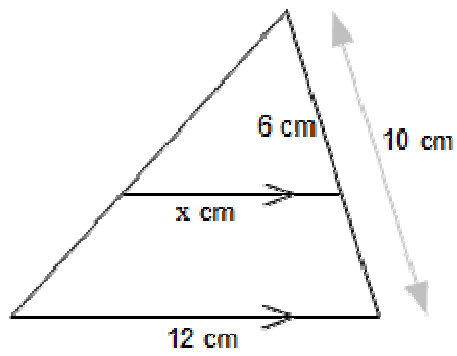


4. Calculate and write the *values for x* using the similarity of the triangles shown below.

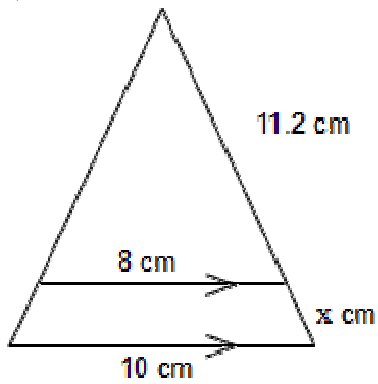
a)



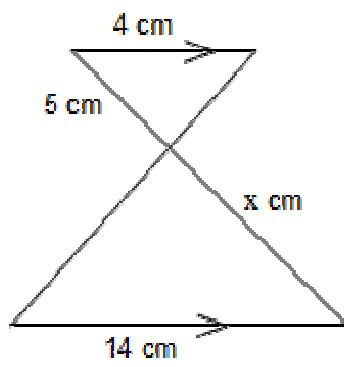
b)



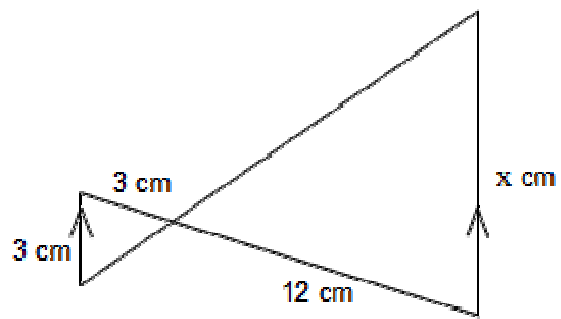
c)



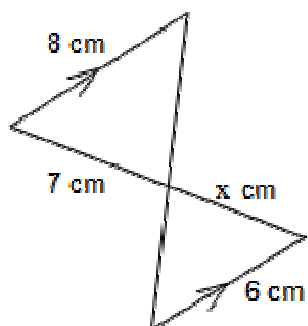
d)



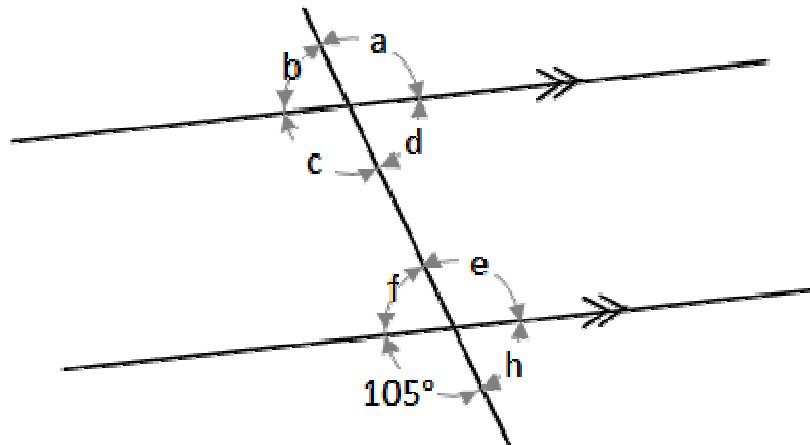
e)



f)

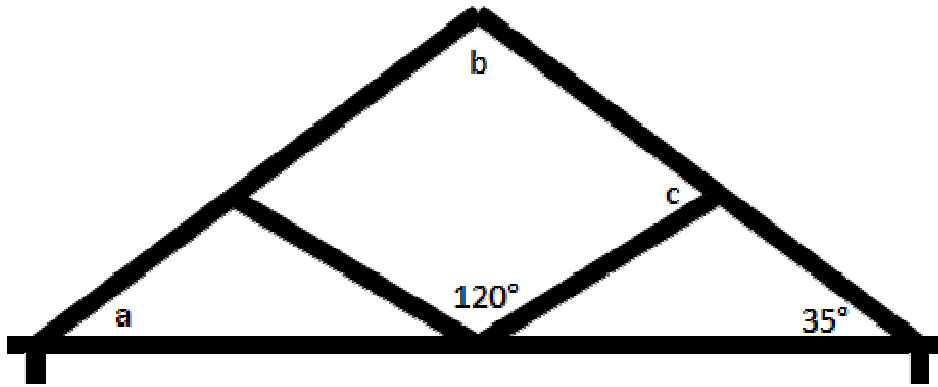


5. Complete the table below to show the values of the missing angles and the basis for your calculations. (note: there may be more than one correct basis for each)



a =		because	
b =		because	
c =		because	
d =		because	
e =		because	
f =		because	
h =		because	

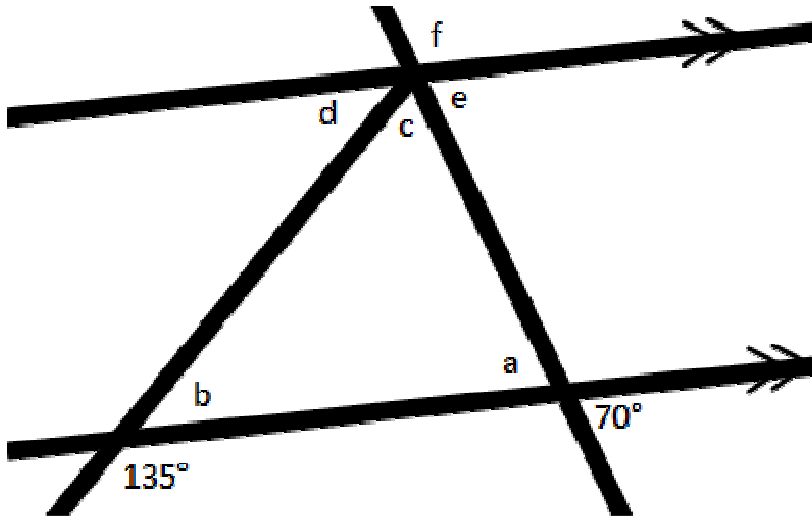
6.



What are the measures of the angles located at positions a, b, & c?

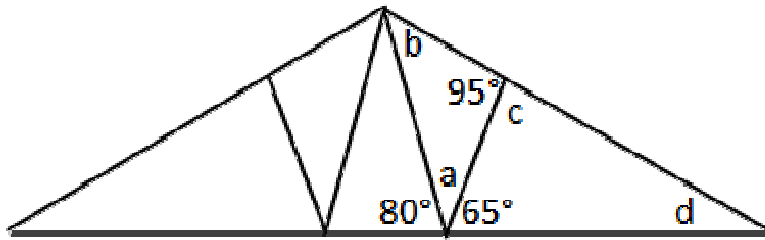
Note: the figure is symmetrical on the vertical through angle b

7.



What are the measures of the angles located at positions a, b, c, d, e, & f?

8. Use what you know about the sum of the angles in a triangle together with the properties of supplementary angles to calculate the missing angles in the figure below.



a =		because	
b =		because	
c =		because	
d =		because	