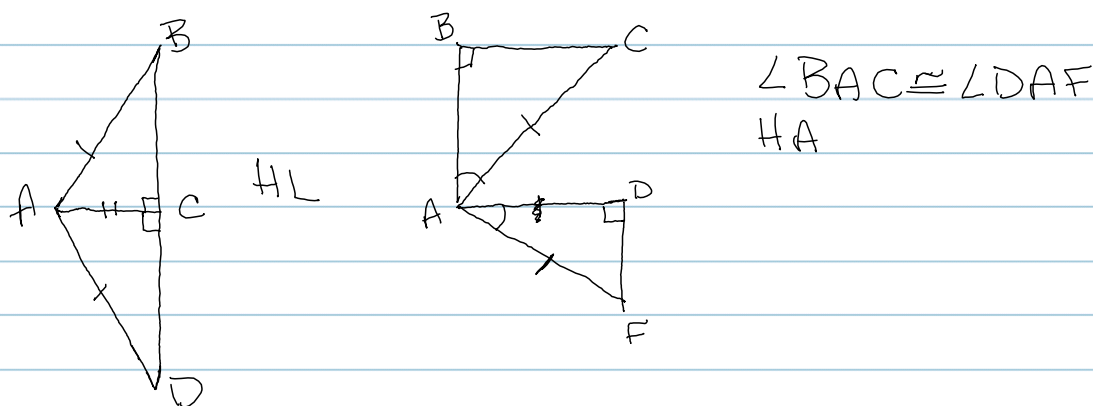
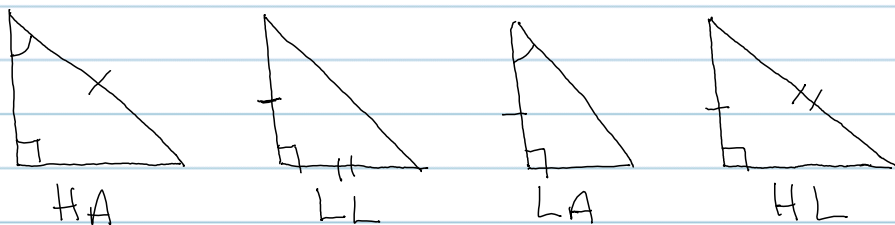


# AM Geometry

## 5-2 - right triangles

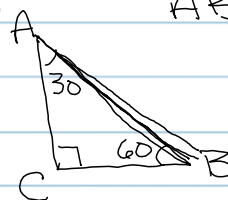


### 5-2



$\overline{CB}$   $\angle CAB$   
 $\angle B$   $\overline{CA}$

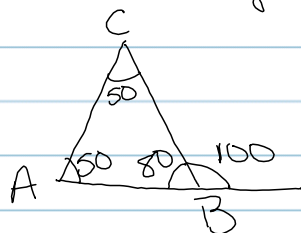
$\triangle ABC$   
 $\angle A = 30$  which side is  
 $\angle B = 60$  longest?  
 $\angle C = 90$   $\overline{AB}$



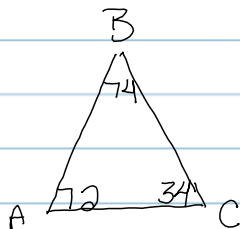
$\triangle ABC$   $m\angle A = 50^\circ$

measure of external  $\angle B = 100^\circ$

Find largest side

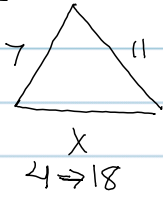


$\overline{AC}$



$m\angle A = 5x + 2 = 72$   
 $m\angle B = 6x - 10 = 74$   
 $m\angle C = x + 20 = 34$   
 $x = 14$   
longest side?  
 $\overline{AC}$

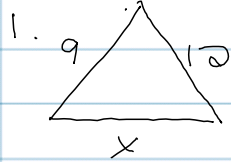
5-5



$$7+x > 11 \quad x > 4$$

$$x+11 > 7 \quad x > -4$$

$$11+7 > x \quad \cancel{x} < \cancel{18}$$



$$x+9 > 12 \quad x > 3$$

$$x+12 > 9 \quad x > -3$$

$$12+9 > x \quad x < 21$$