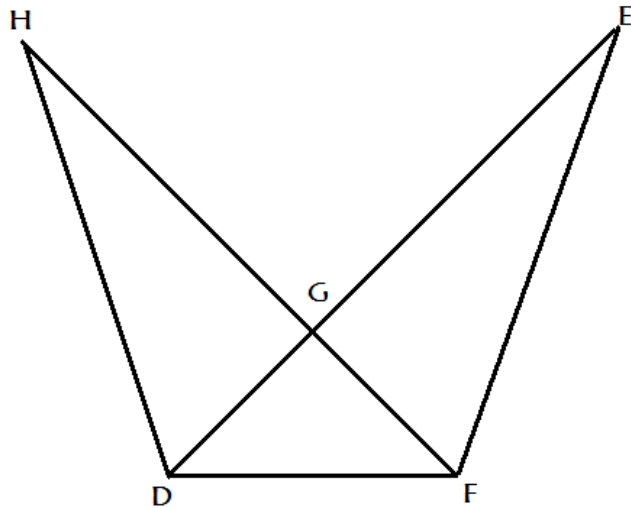




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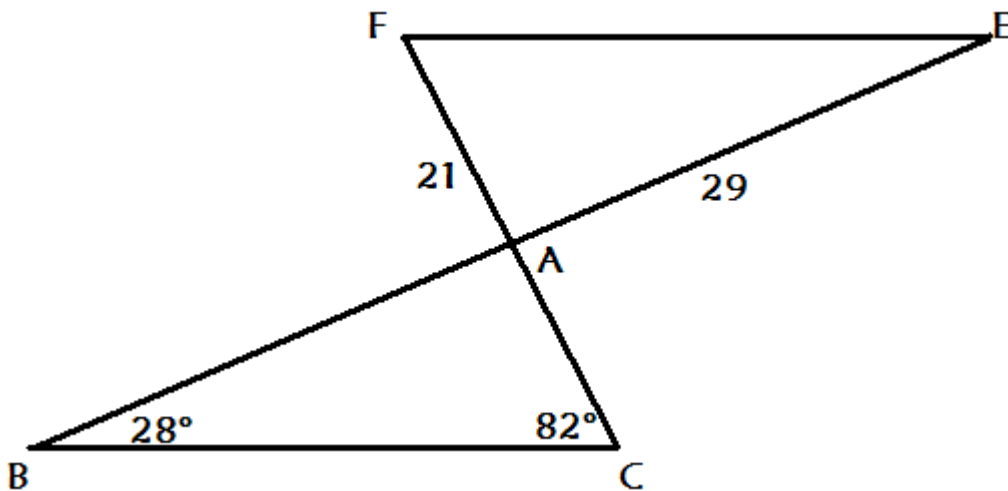
Congruency

1. $\triangle DEF \cong \triangle FHD$, $HD = 44$, $DE = 74$ and $FG = 13$.
Find the length of EF , FH and GH .



2. $\triangle ABC \cong \triangle AEF$, calculate the following using the given

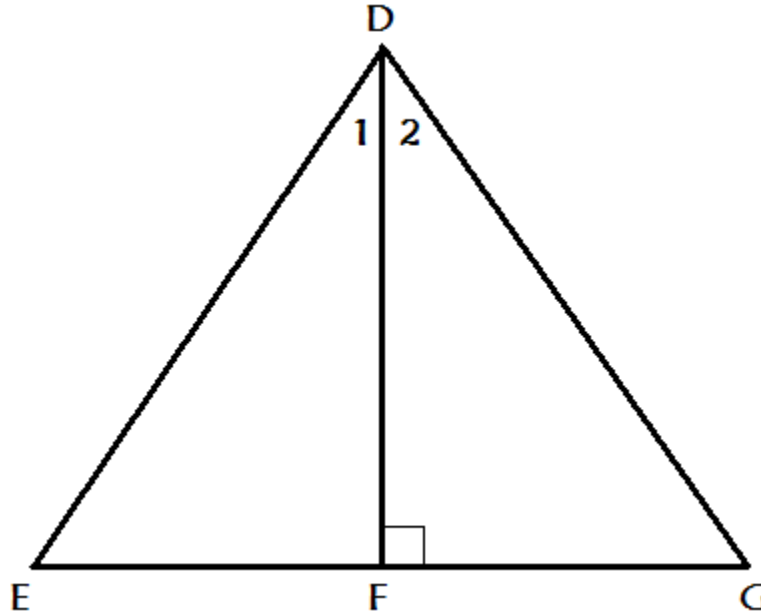
- sketch: (a) \hat{F} and \hat{E}
(b) AB and AC





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3. Determine whether $\triangle DEF \cong \triangle DFG$ if $\hat{D}_1 = 30^\circ$, $\hat{G} = 62^\circ$ and $EG = 20$.





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MEMO

1. $\triangle DEF \cong \triangle FHD$ [8.3.5.2]
 $EF = HD = 44$
 $FH = DE = 74$
 $GH = FH - FG$
 $GH = 74 - 13 = 61$

2. $\triangle ABC \cong \triangle AEF$:
 $\hat{F} = \hat{C} = 82^\circ$
 $\hat{E} = \hat{B} = 28^\circ$

$AB = AE = 29$
 $AC = AF = 21$

3. In $\triangle DFG$:
 $\hat{D}_2 = 180^\circ - 90^\circ - 62^\circ = 28^\circ$
 $\hat{D}_1 \neq \hat{D}_1$

$\triangle DEF$ and $\triangle DFG$ is not congruent

