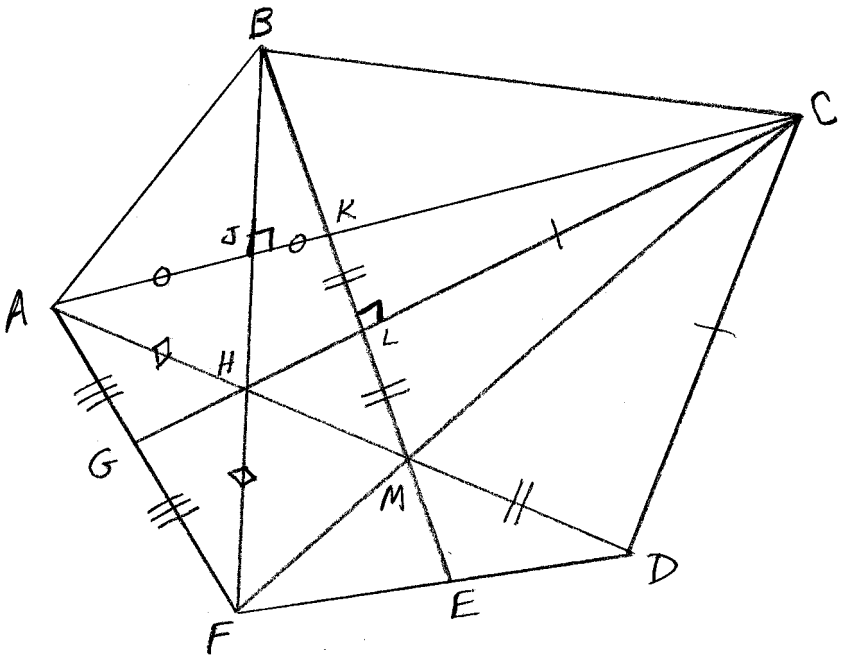
10/22/2008



CHALLENGE!

- Find all ⊥ bisectors (be sure to state what bisects what).

- Find all congruent segment pairs that can be proved, other than those that are given.

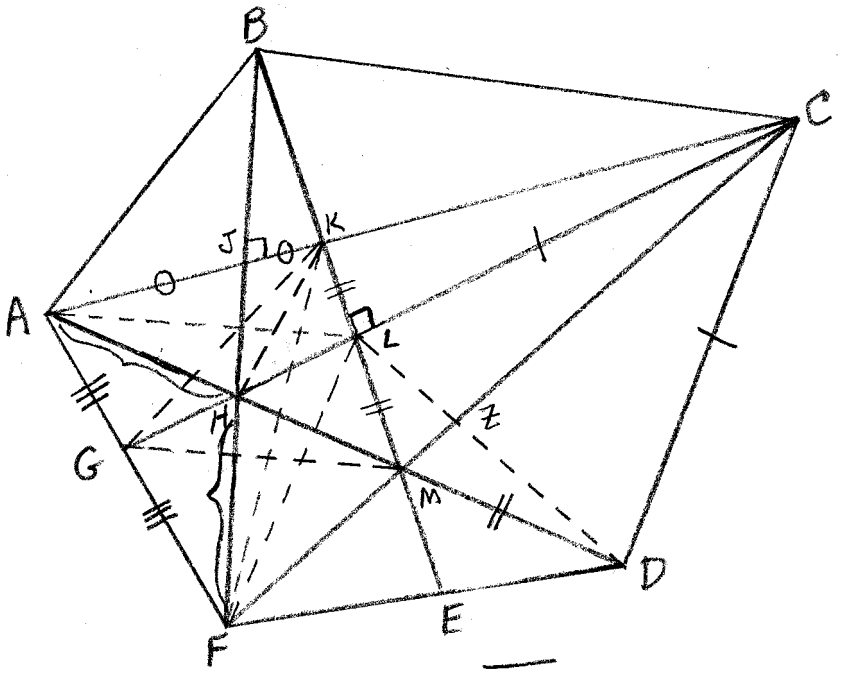
SOLUTION ON NEXT PAGE ——

TRY IT BEFORE PEEKING.

10/22/2008

Note: Diagram is overdetermined. However, it is still OK for practicing PBT.

Given: $KL = LM = MD$
$CL = CD$
$AH = HF$
$AG = GF$
$AJ = JK$
2 rt. $\angle$s as marked



Answers: $\overline{CG} \perp$ bis. $\overline{KM}$
$\Rightarrow CK = CM,\ HK = HM,\ GK = GM$

$\overline{CG} \perp$ bis. $\overline{AF}$
$\Rightarrow LA = LF,\ CA = CF$

$\overline{CF} \perp$ bis. $\overline{LD}$
$\Rightarrow ZL = ZD,\ FL = FD$

$\overline{BF} \perp$ bis. $\overline{AK}$
$\Rightarrow BA = BK,\ HA = HK,\ FA = FK$