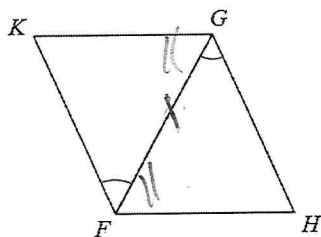


27. What additional information would be needed to prove the triangles are congruent using ASA?



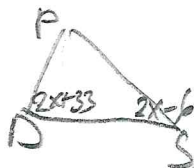
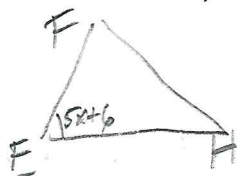
$$\angle KGF \cong \angle HFG$$

28. Given that $\triangle PQR \cong \triangle LMN$, list all corresponding sides and all corresponding angles.

Corresponding Sides: $PQ \cong LM$, $QR \cong MN$, $PR \cong LN$

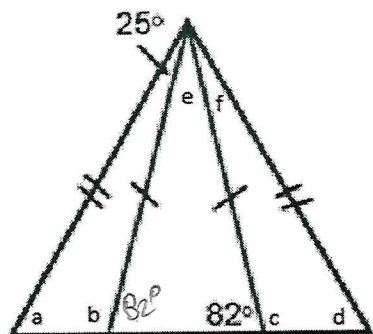
Corresponding Angles: $\angle P \cong \angle L$, $\angle Q \cong \angle M$, $\angle R \cong \angle N$

29. Draw a picture to solve for x in the following problem: $\triangle EFH \cong \triangle DPS$, $m\angle E = 5x + 6$; $m\angle D = 2x + 33$; $m\angle S = 2x - 6$.



$$\begin{aligned} m\angle E &= m\angle D && \text{CPCTC} \\ 5x+6 &= 2x+33 \\ x &= 9 \end{aligned}$$

30. Find all missing angles.



$$\begin{aligned} a &= 57^\circ \\ b &= 98^\circ \\ e &= 98^\circ \\ c &= 57^\circ \\ e &= 16^\circ \\ f &= 25^\circ \end{aligned}$$

$$\begin{aligned} 124 & 123 \\ 16 & 57 \end{aligned}$$