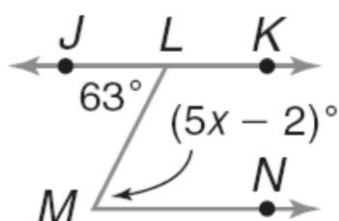
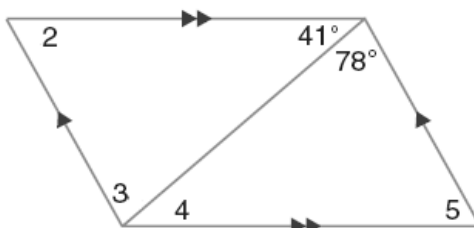


Name: _____

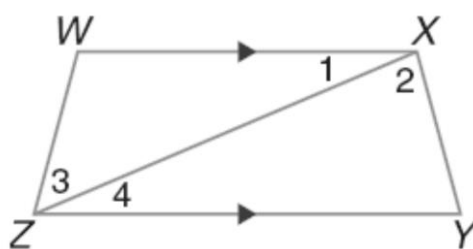
Parallel Lines and Special Angles

A) Given that $\overline{JK} \parallel \overline{MN}$, find:1) The value of x 2) $m\angle LMN$ 3) $m\angle KLM$

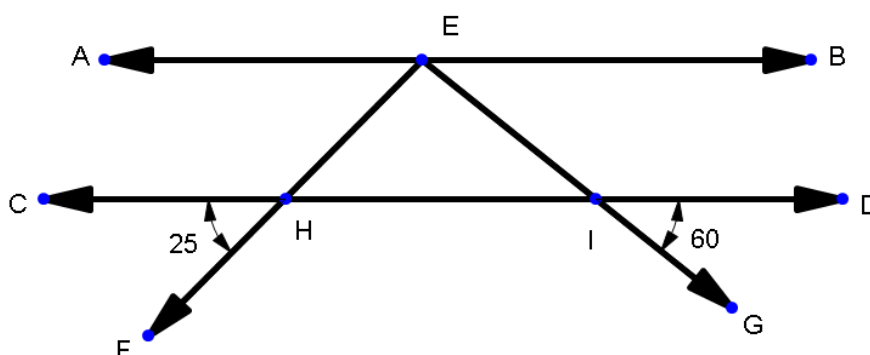
B) Find the measure of each numbered angle.

4) $m\angle 2$ 5) $m\angle 3$ 6) $m\angle 4$ 7) $m\angle 5$

- C) 8) In the figure below, explain why you can conclude that $\angle 1 \cong \angle 4$, but you cannot tell whether $\angle 3$ is congruent to $\angle 2$.



- D) In the accompanying diagram, $\overline{AB} \parallel \overline{CD}$. From point E on \overline{AB} , transversals \overline{EF} and \overline{EG} are drawn, intersecting \overline{CD} at H and I, respectively.



- 9) If $m\angle CHF = 25^\circ$ and $m\angle DIG = 60^\circ$, what is $m\angle HEI$?
- E) Given: $\square ABC$, \overline{CE} bisects exterior $\angle BCD$
 $\overline{CE} \parallel \overline{AB}$

- 10) Prove: $\angle A \cong \angle B$

