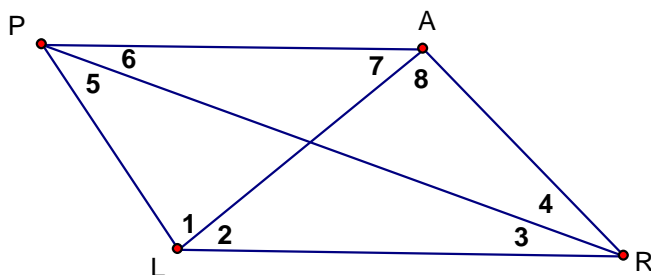


Name: _____

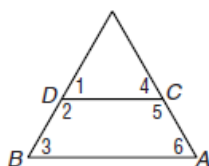
Proving Parallel Lines

- A) Use the given information to name the segments that must be \parallel . If there are no such segments, say so.



- 1) $m\angle 1 = m\angle 8$
- 2) $\angle 5 \cong \angle 3$
- 3) $\angle 2 \cong \angle 7$
- 4) $m\angle 5 = m\angle 4$
- 5) $m\angle 5 + m\angle 6 = m\angle 3 + m\angle 4$
- 6) $m\angle APL + m\angle PAR = 180$

B) Given: $\angle 4 \cong \angle 6$

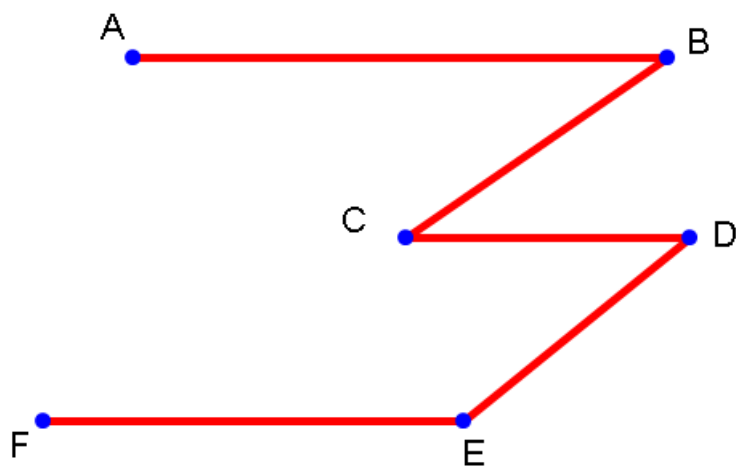


7) Prove: $\overline{AB} \parallel \overline{CD}$

C) Given: $\angle ABC \cong \angle BCD$

$\overline{CB} \parallel \overline{ED}$

$\angle CDE$ and $\angle DEF$ are supplementary angles



8) Prove: $\overline{AB} \parallel \overline{FE}$