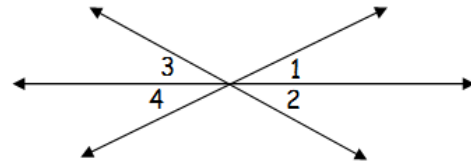


PAP Geometry
2.3 Proof HW - Day 2

Name _____



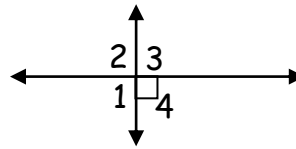
1. Given; $\angle 1 \cong \angle 3$

Prove: $\angle 3 \cong \angle 4$

Statements	Reasons
1. $\angle 1 \cong \angle 3$	1.
2.	2.
3. $\angle 3 \cong \angle 4$	3.

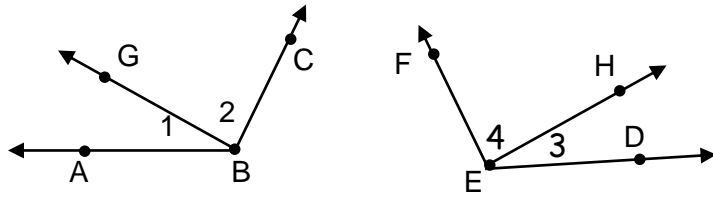
2. Given : $\angle 4$ is a right angle

Prove : $\angle 2$ and $\angle 4$ are supplementary



Statements	Reasons
1. $\angle 4$ is a right angle	1. Given
2. $m\angle 4 = 90$	2.
3. $\angle 2 \cong \angle 4$	3.
4. $m\angle 2 = m\angle 4$	4.
5. $m\angle 2 = 90$	5.
6. $m\angle 2 + m\angle 4 = 180^\circ$	6.
7. $\angle 2$ and $\angle 4$ are supplementary	7.

3. Given: $m\angle 1 = m\angle 3$
 $m\angle 2 = m\angle 4$
 Prove: $m\angle ABC = m\angle DEF$



Statements

Reasons

4. Given: $m\angle DEG = m\angle HEF$
 Prove: $m\angle DEH = m\angle GEF$

