I can prove that two triangles are similar.

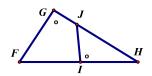
**Remember:** The three shortcuts for proving two triangles are similar are...

1) GIVEN:

 $\angle G \cong \angle HIJ$ 

PROVE:

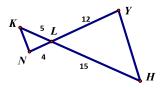
 $\Delta$ FGH  $\sim \Delta$ JIH



2) GIVEN:

LN = 4 cm, KL = 5 cm LY = 12 cm, LH = 15 cm

PROVE:  $\Delta$ KLN  $\sim \Delta$ HLY



STATEMENT	REASON	STATEMENT	REASON
_			

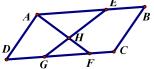
E	$ \wedge^T $	

3) **GIVEN**:

ABCD is a parallelogram

PROVE:

 $\Delta$ AHE ~  $\Delta$ FHG

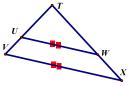


4) **GIVEN**:

 $\overline{UW}||\overline{VX}$ 

PROVE:

 $\Delta TUW \sim \Delta TVX$ 



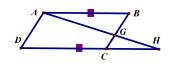
STATEMENT	REASON	STATEMENT	REASON

Remember: By definition, once we know two polygons are similar we also know			
1	2		

5) **GIVEN**:

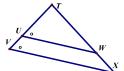
$$\overline{AB} \mid\mid \overline{DC}$$

PROVE:



6) **GIVEN**: ∠TUW ≅ ∠TVX

**PROVE**: 
$$\frac{TU}{TV} = \frac{TW}{TX}$$



		- '	7.
STATEMENT	REASON	STATEMENT	REASON
	ı		ı