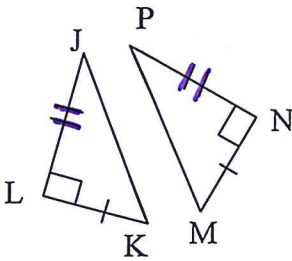


## SSS and SAS

Prove that the below triangles are congruent by SSS or SAS.

1-



① Congruent parts:

$$JL \cong PN$$

$$\angle L \cong \angle N \text{ right angle.}$$

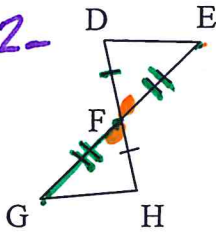
$$KL \cong MN$$

Congruence Statement:

$$\triangle JLK \cong \triangle PNM$$

Reason: SAS

2-



Congruent parts:

$$GF \cong EF$$

$$DF \cong HF$$

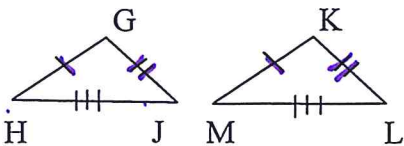
$$\angle DFE \cong \angle HFG \text{ Vertical angle}$$

Congruence Statement:

$$\triangle DFE \cong \triangle HFG.$$

Reason: SAS

3-



Congruent Parts:

$$JG \cong L'K$$

$$HG \cong MK$$

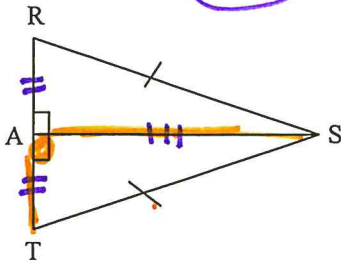
$$HJ \cong ML$$

Congruence Statement:

$$\triangle GHJ \cong \triangle KML$$

Reason: SSS

4- Given AS is the median of RT



$RA \cong TA$  median  
 $RS \cong TS$   
 $AS \cong AS$  shared Side.

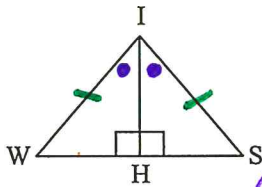
$\triangle RAS \cong \triangle TAS$   
 by SSS.

$RA \cong TA$  median  
 $\angle RAS \cong \angle TAS$  right angle  
 $AS \cong AS$  shared Side

$\triangle RSA \cong \triangle TAS$  by SAS.

5- Given: IH Bisects  $\angle WIS$

\* Can not be proven by SSS or SAS



SSS or SAS

Add a side for it To work

\*