

Ways to prove Triangles Similar

Side-Angle-Side

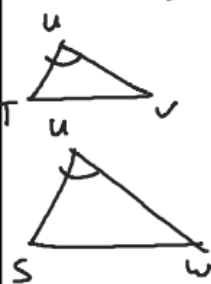
Side-Side-Side

Angle-Angle

Proving Triangles Similar

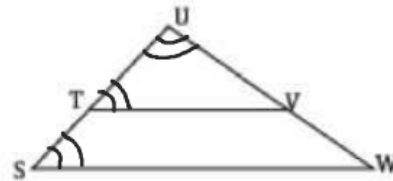
Handwritten notes:

- SAS
- SSS
- AA



6.

Given:  $\angle S \cong \angle UTU$



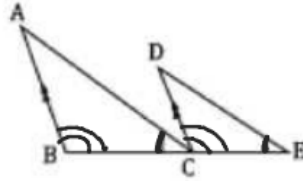
Prove:  $\triangle SUW \sim \triangle UTU$

Statement	Reason
1) $\angle S \cong \angle UTU$	1) Given
2) $\angle U \cong \angle U$	2) Reflexive prop.
3) $\triangle SUW \sim \triangle UTU$	3) A.A.

SAS  
 SSS  
 AA

7.

Given:  $\overline{AB} \parallel \overline{DC}$ ,  $\angle ACB \cong \angle E$

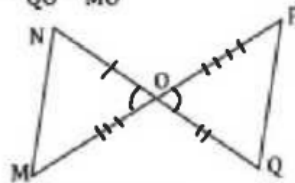


Prove:  $\triangle ABC \sim \triangle DCE$

Statement	Reason
1) $\overline{AB} \parallel \overline{DC}$ $\angle ACB \cong \angle E$	1) Given
2) $\angle ABC \cong \angle DCE$	2) Corresponding L's $\cong$
3) $\triangle ABC \sim \triangle DCE$	3) AA

8.

Given:  $\frac{NO}{QO} = \frac{PO}{MO}$



Prove:  $\triangle MNO \sim \triangle PQO$

Statement	Reason
1) $\frac{NO}{QO} = \frac{PO}{MO}$	1) Given
2) $\angle NOM \cong \angle QOP$	2) Vertical L's
3) $\triangle MNO \sim \triangle PQO$	3) SAS