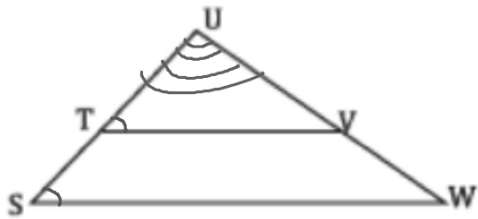
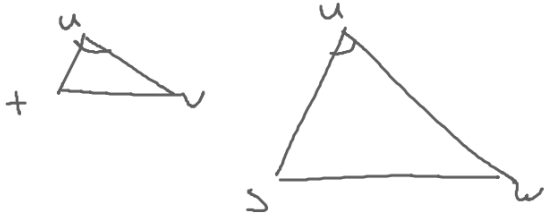


Given: $\angle S \cong \angle UTV$



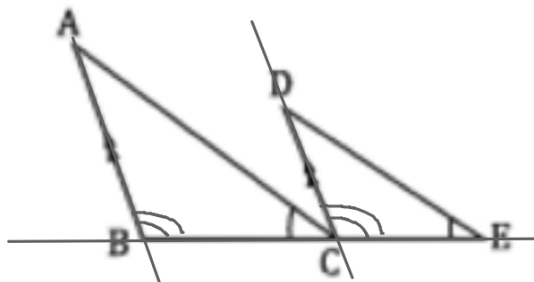
Prove: $\triangle SUW \sim \triangle TUV$



~~SAS~~
SAS
AA

Statement	Reason
1) $\angle S \cong \angle UTV$	1) Given
2) $\angle U \cong \angle U$	2) Reflexive Prop.
3) $\triangle SUW \sim \triangle TUV$	3) AA

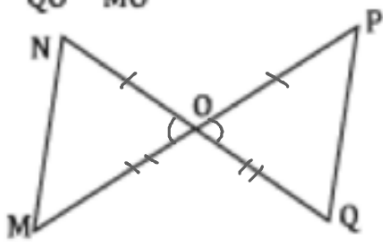
Given: $\overline{AB} \parallel \overline{DC}$, $\angle ACB \cong \angle E$



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

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

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

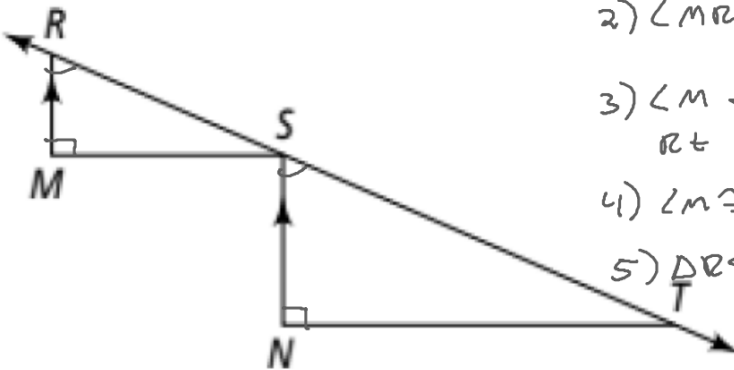


Prove: $\triangle MNO \sim \triangle PQO$

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

Given: $\overline{RM} \parallel \overline{SN}$, $\overline{RM} \perp \overline{MS}$,
 $\overline{SN} \perp \overline{NT}$

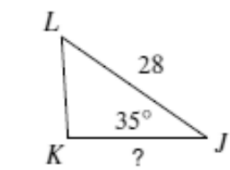
Prove: $\triangle RSM \sim \triangle STN$



Statement	Reason
1) $\overline{RM} \parallel \overline{SN}$, $\overline{RM} \perp \overline{MS}$, $\overline{SN} \perp \overline{NT}$	1) Given
2) $\angle MRS \cong \angle NST$	2) Corresponding \angle 's \cong .
3) $\angle M$ & $\angle N$ are Rt \angle 's	3) Def \perp lines
4) $\angle M \cong \angle N$	4) All Rt \angle 's \cong .
5) $\triangle RSM \sim \triangle STN$	5) AA

Find the missing length. The triangles in each pair are similar.

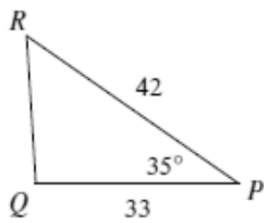
13)



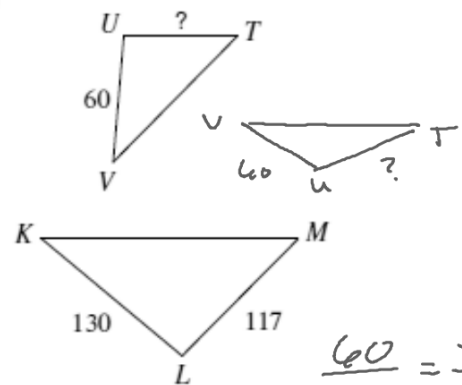
$$\frac{28}{42} = \frac{x}{33}$$

$$\frac{42x}{42} = \frac{924}{42}$$

$$x = 22$$



14)



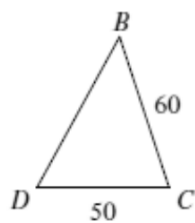
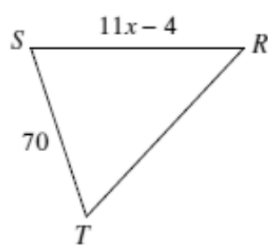
$$\frac{60}{130} = \frac{x}{117}$$

$$130x = 7020$$

$$x = 54$$

Solve for x . The triangles in each pair are similar.

17)



$$\frac{11x-4}{50} = \frac{70}{60}$$

$$\frac{11x-4}{50} = \frac{7}{6}$$

$$66x - 24 = 350$$

$$66x = 374$$

$$x = 5.\overline{6}$$

$$\frac{17}{3}$$

18)

