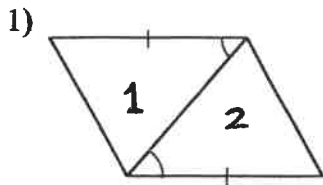


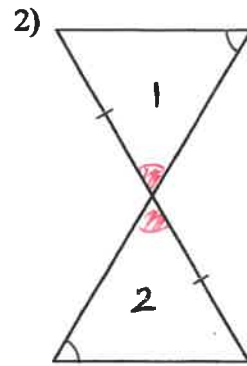
Basic Triangle Congruence Practice

State if the two triangles are congruent. If they are, state how you know.



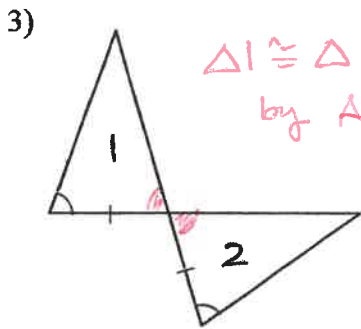
$\Delta 1 \cong \Delta 2$   
by SAS

Rotate  $\Delta 1$   
 $180^\circ$  around its  
center and  
translate to the  
right



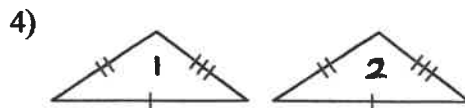
$\Delta 1 \cong \Delta 2$   
by AAS

Rotate  $\Delta 1$   $180^\circ$   
around its center and  
translate down.



$\Delta 1 \cong \Delta 2$   
by ASA

Reflect  $\Delta 1$   
Horizontally  
and rotate  
clockwise

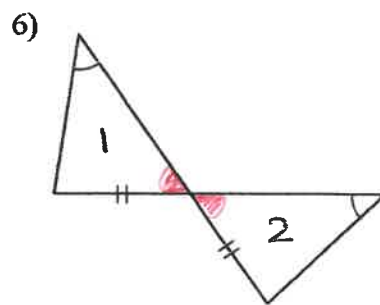


$\Delta 1 \cong \Delta 2$  by SSS  
Translate  $\Delta 1$  to the right.



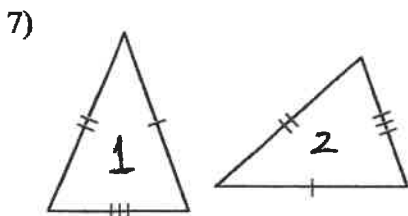
$\Delta 1 \cong \Delta 2$   
by AAS

Reflect  
 $\Delta 1$   
Horizontally  
and rotate  
clockwise



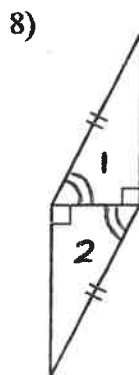
$\Delta 1 \cong \Delta 2$  by AAS

Reflect  $\Delta 1$   
Horizontally and  
rotate clockwise.



$\Delta 1 \cong \Delta 2$   
by SSS

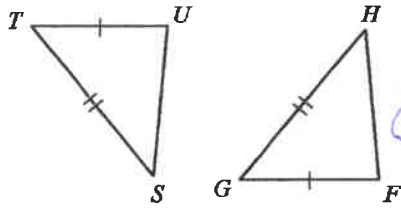
Rotate  
 $\Delta 1$   
center  
clockwise  
and  
translate  
right  
and up.



$\Delta 1 \cong \Delta 2$  by AAS  
Reflect  $\Delta 1$  horizontally  
and then reflect  
it vertically

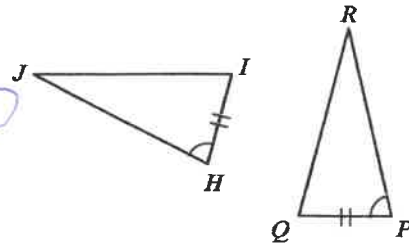
State what additional information is required in order to know that the triangles are congruent for the reason given.

9) SAS



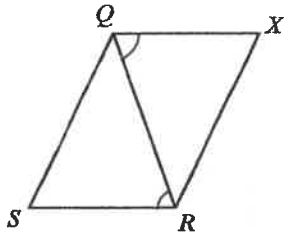
S:  $\overline{TU} \cong \overline{GF}$   
 A:  $\angle T \cong \angle G$   
 S:  $\overline{TS} \cong \overline{GH}$

10) ASA



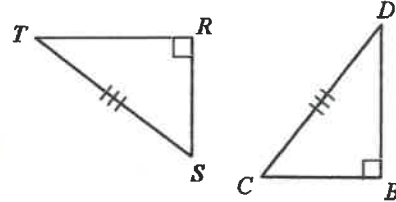
A:  $\angle H \cong \angle P$   
 S:  $\overline{HI} \cong \overline{QP}$   
 A:  $\angle I \cong \angle Q$

11) ASA



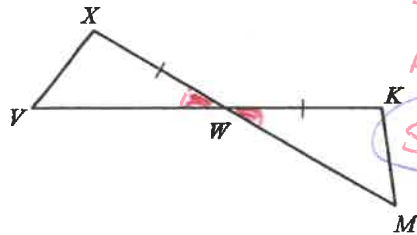
A:  $\angle XQR \cong \angle SRQ$   
 S:  $\overline{QR} \cong \overline{XR}$   
 A:  $\angle SQR \cong \angle XSR$

12) ~~ASA~~ AAS



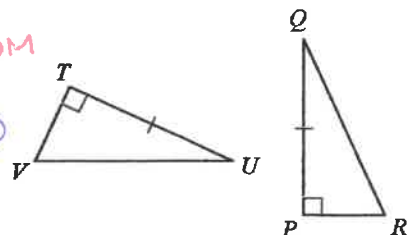
There's another answer!  
 A:  $\angle S \cong \angle D$   
 A:  $\angle R \cong \angle B$   
 S:  $\overline{TS} \cong \overline{CB}$

13) SAS



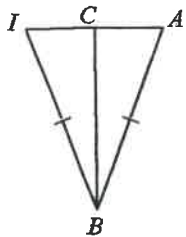
S:  $\overline{XW} \cong \overline{KW}$   
 A:  $\angle XWV \cong \angle KWM$   
 S:  $\overline{WV} \cong \overline{WM}$

14) ~~ASA~~ ASA



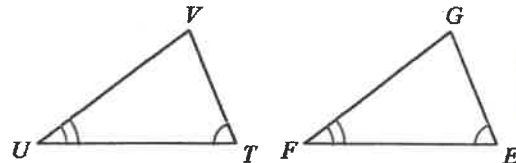
A:  $\angle T \cong \angle P$   
 S:  $\overline{TU} \cong \overline{PR}$   
 A:  $\angle U \cong \angle R$

15) SAS



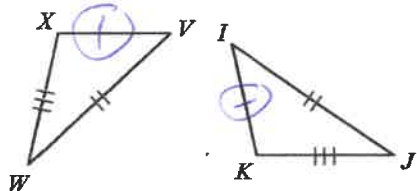
S:  $\overline{IB} \cong \overline{AB}$   
 A:  $\angle CBI \cong \angle CBA$   
 S:  $\overline{CB} \cong \overline{CB}$

16) ASA



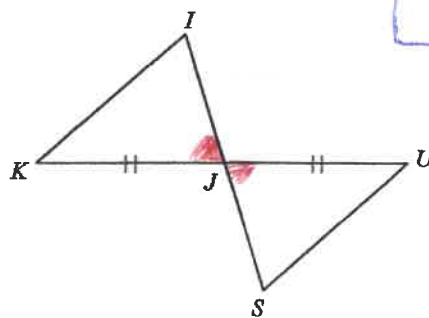
A:  $\angle U \cong \angle F$   
 S:  $\overline{UT} \cong \overline{FE}$   
 A:  $\angle T \cong \angle E$

17) SSS



S:  $\overline{WX} \cong \overline{KJ}$   
 S:  $\overline{WV} \cong \overline{IJ}$   
 S:  $\overline{XV} \cong \overline{KI}$

18) AAS



A:  $\angle KIJ \cong \angle USJ$   
 A:  $\angle IJK \cong \angle SJU$   
 S:  $\overline{KJ} \cong \overline{JU}$