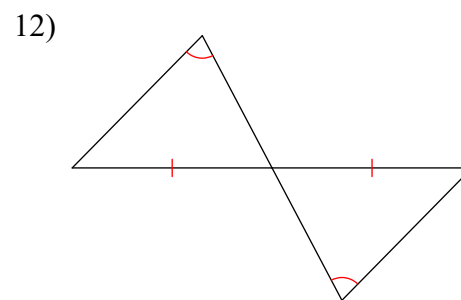
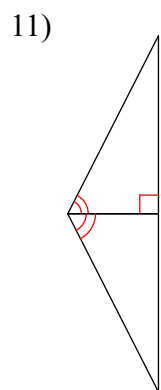
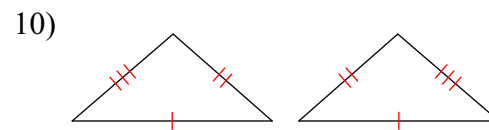
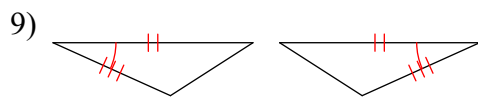
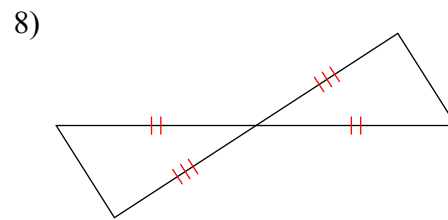
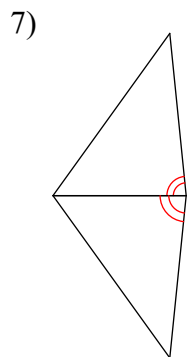
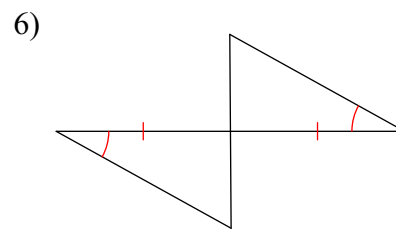
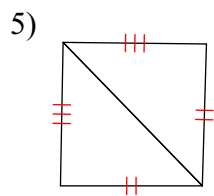
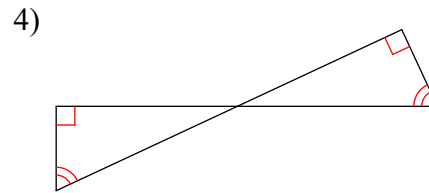
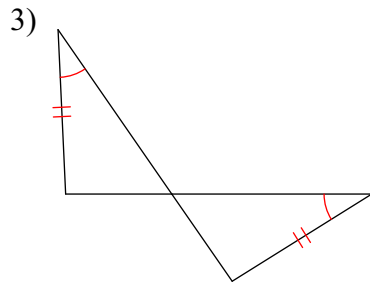
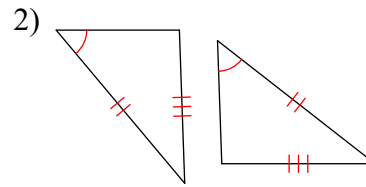
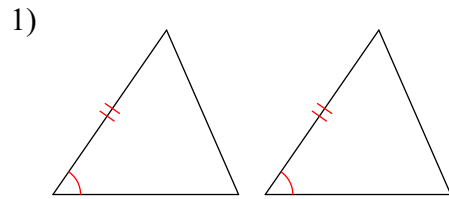
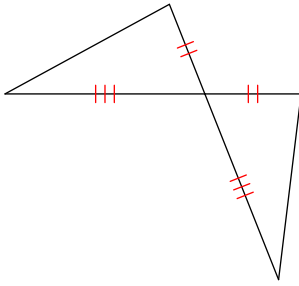


Geometry - Homework 15

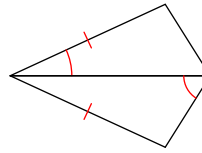
State if the two triangles are congruent. If they are, state how you know.



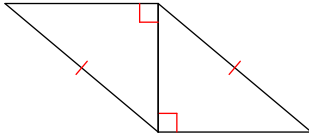
13)



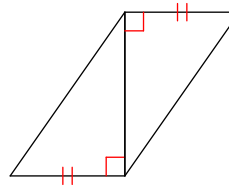
14)



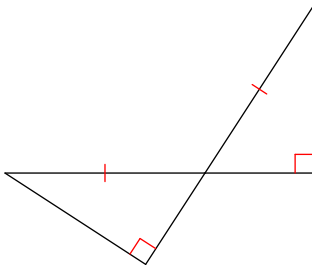
15)



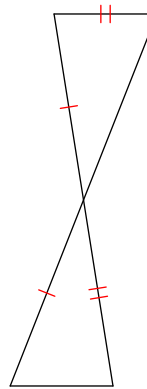
16)



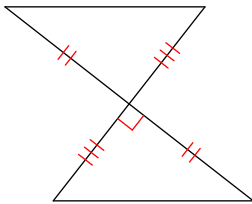
17)



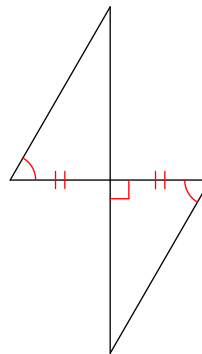
18)



19)

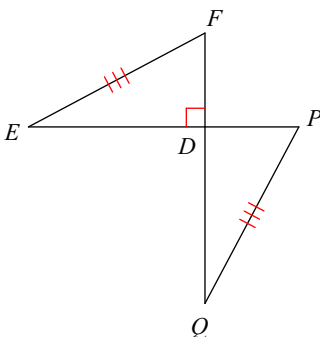


20)

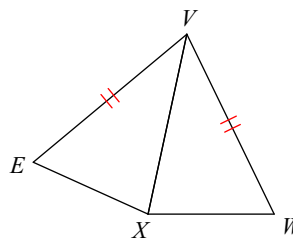


State what additional information is required in order to know that the triangles are congruent for the reason given.

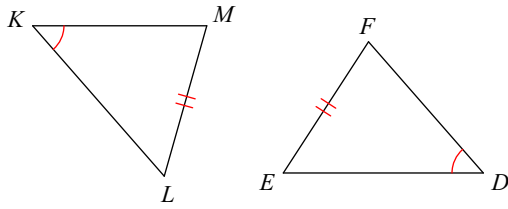
21) HL



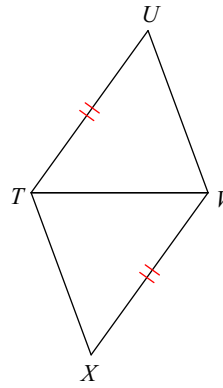
22) SSS



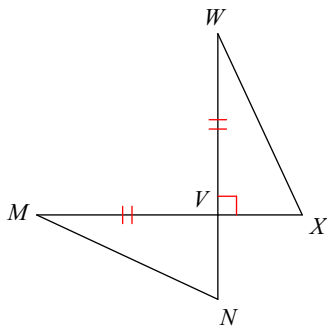
23) AAS



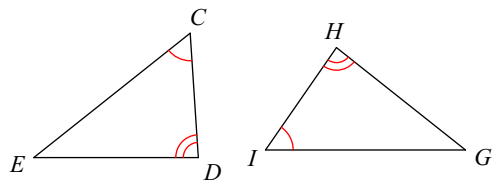
24) SSS



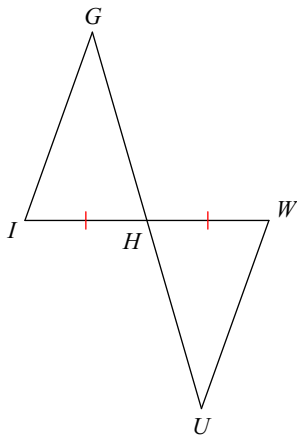
25) LL



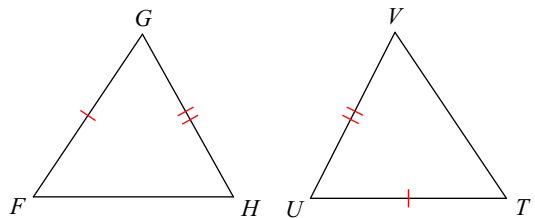
26) AAS



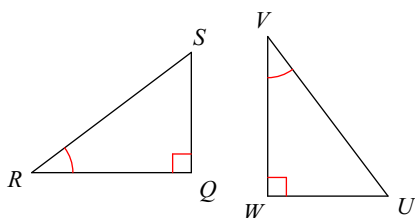
27) AAS



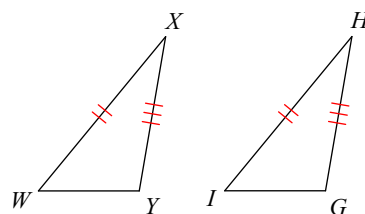
28) SSS



29) HA

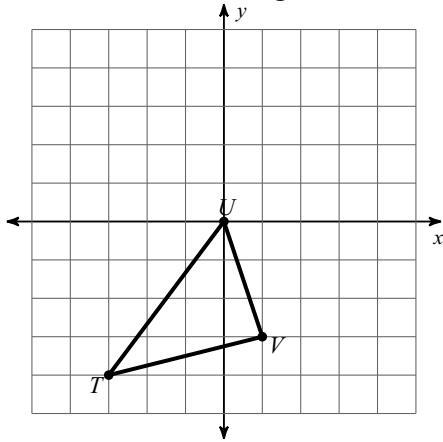


30) SSS

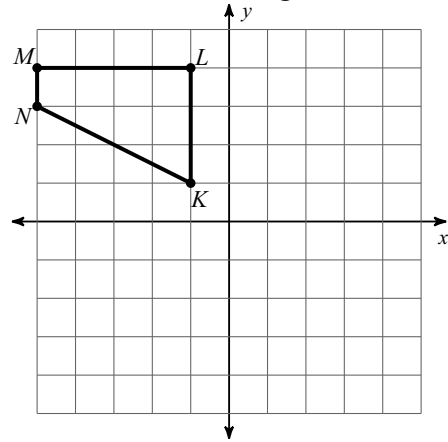


Find the coordinates of the vertices of each figure after the given transformation.

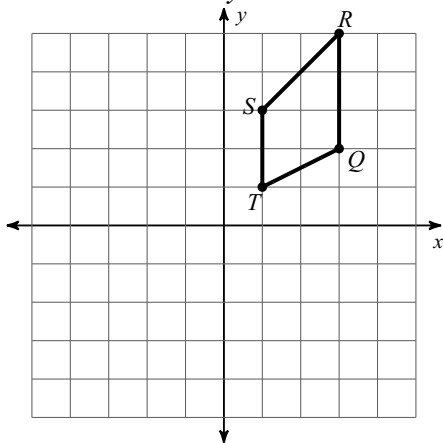
31) translation: 3 units right and 3 units up



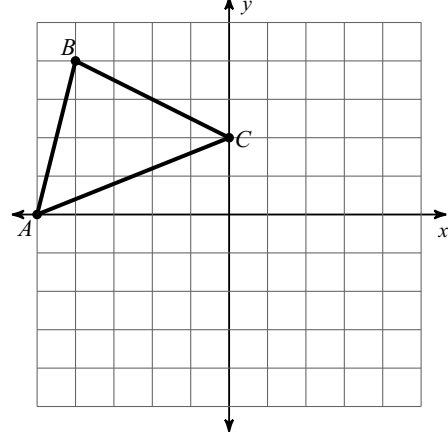
32) translation: 2 units right



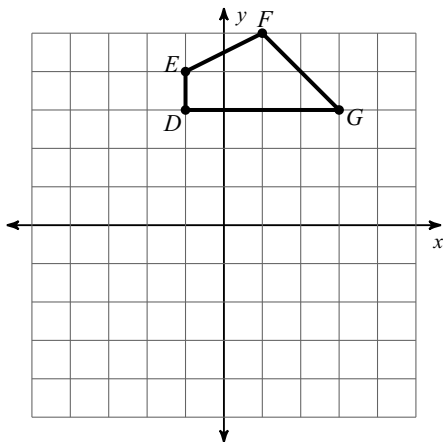
33) reflection across $y = 3$



34) translation: 1 unit down

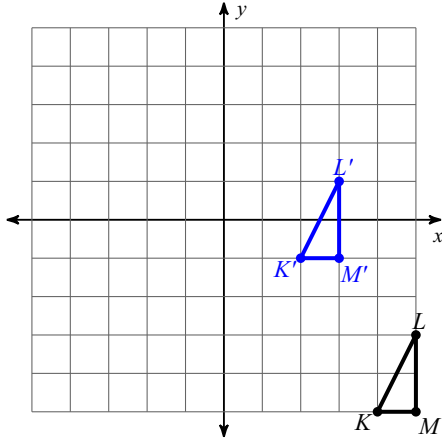


35) reflection across the x-axis

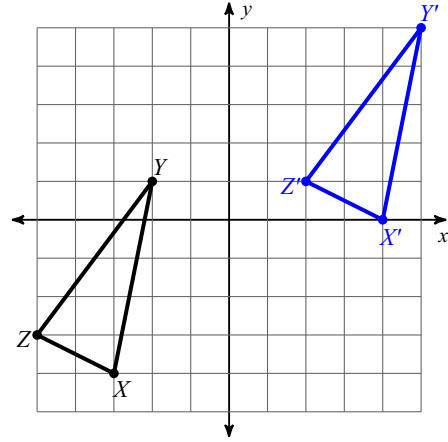


Write a rule to describe each transformation.

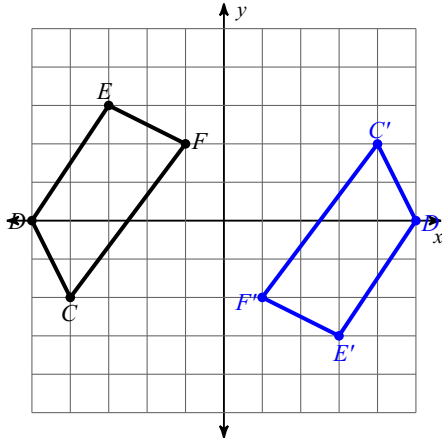
36)



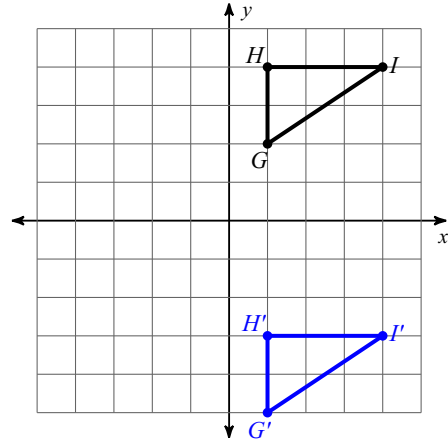
37)



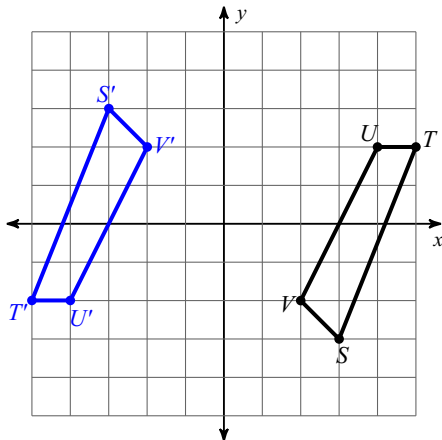
38)



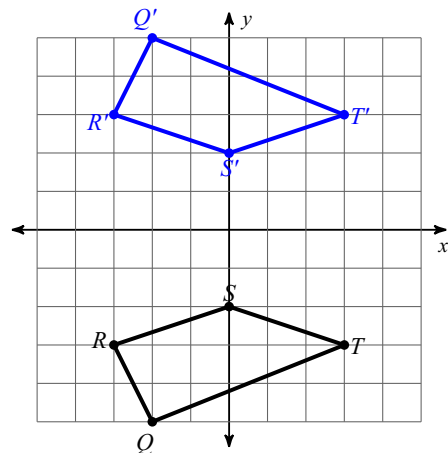
39)



40)



41)



Answers to Geometry - Homework 15

- 1) Not congruent 3) AAS 5) SSS 7) Not congruent
9) SAS 11) LA 13) \overline{SAS} 15) HL
17) HA 19) LL 21) $\overline{DE} \cong \overline{DQ}$ or $\overline{FD} \cong \overline{PD}$
23) $\angle L \cong \angle E$ or $\angle M \cong \angle F$ 25) $\overline{XV} \cong \overline{NV}$ 27) $\angle G \cong \angle U$
29) $\overline{RS} \cong \overline{VU}$ 31) $T'(0, -1), U'(3, 3), V'(4, 0)$
33) $S'(1, 3), R'(3, 1), Q'(3, 4), T'(1, 5)$ 35) $E'(-1, -4), F'(1, -5), G'(3, -3), D'(-1, -3)$
37) translation: 7 units right and 4 units up 39) translation: 7 units down
41) reflection across the x-axis