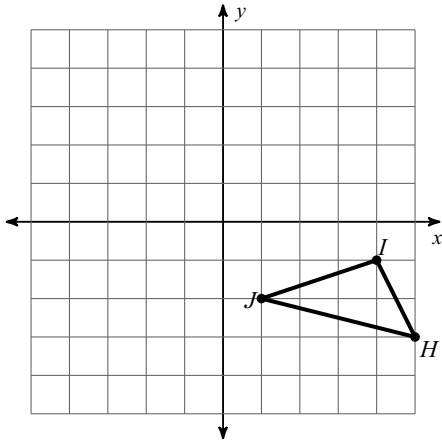


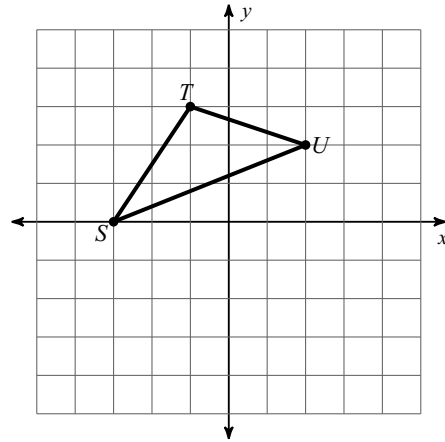
Benchmark 1 Review S2017 V2

Graph the image of the figure using the transformation given.

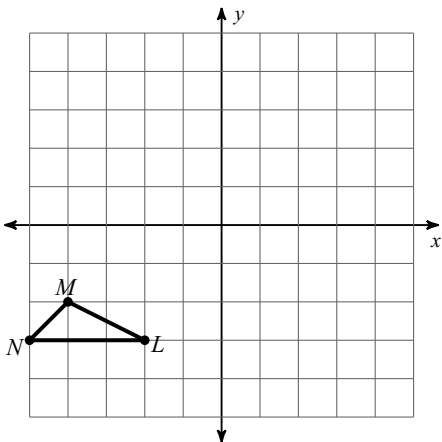
1) reflection across the y-axis



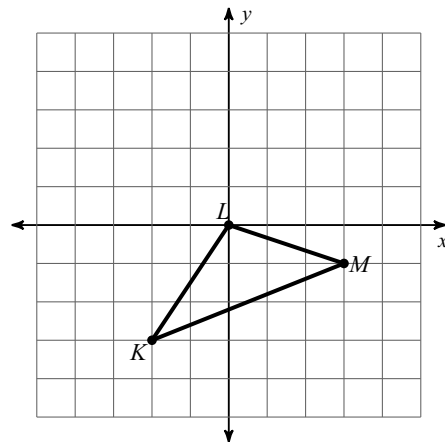
2) reflection across the x-axis



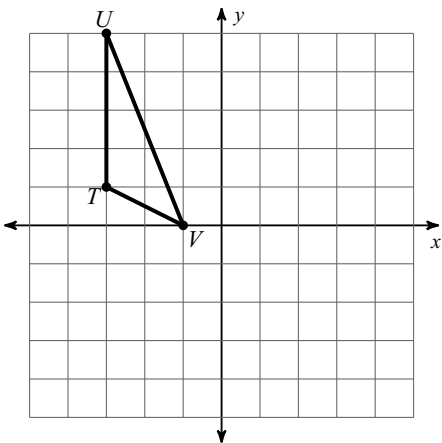
3) reflection across $y = x$



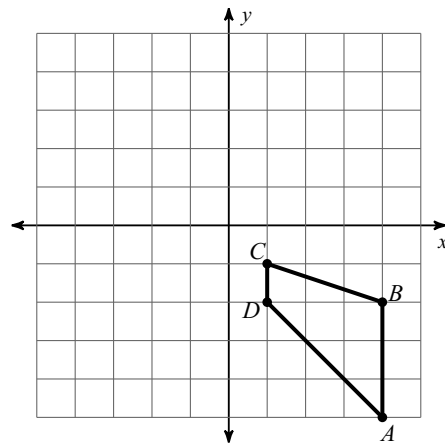
4) reflection across $y = -x$



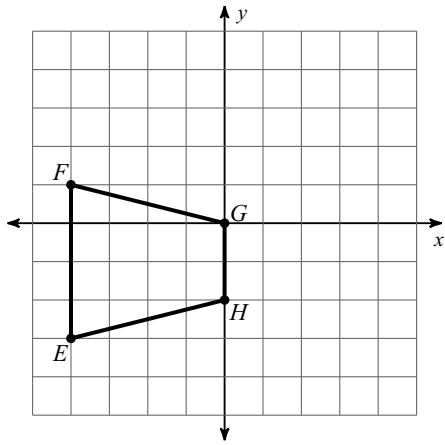
5) reflection across the x-axis



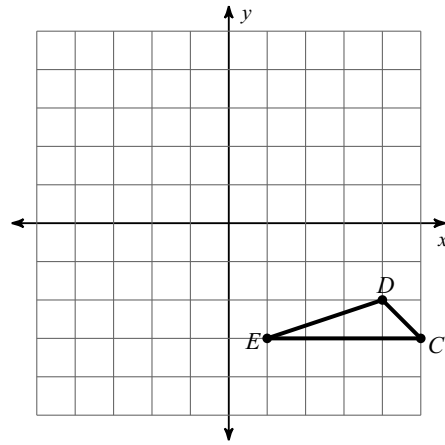
6) reflection across the y-axis



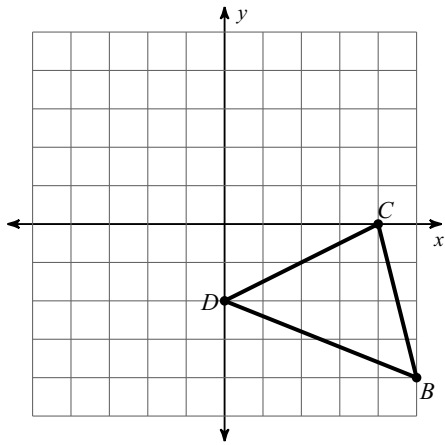
7) reflection across $y = x$



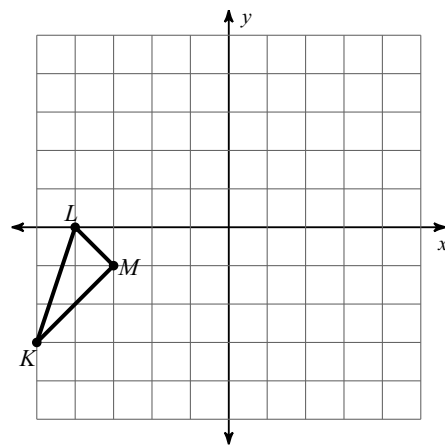
8) reflection across $y = -x$



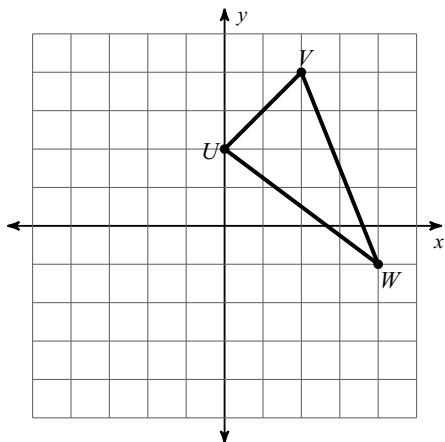
9) reflection across the x-axis



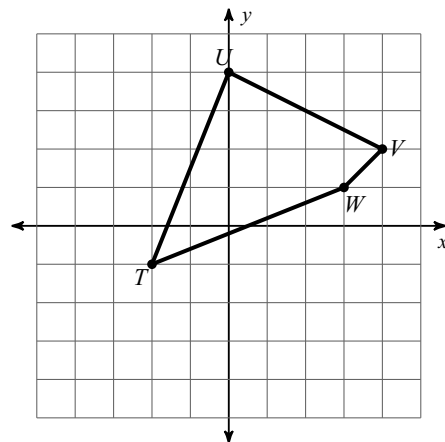
10) reflection across $y = x$



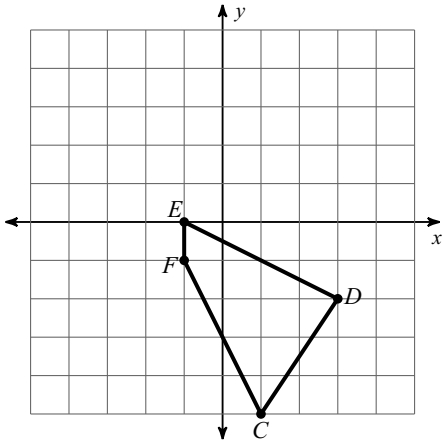
11) reflection across the y-axis



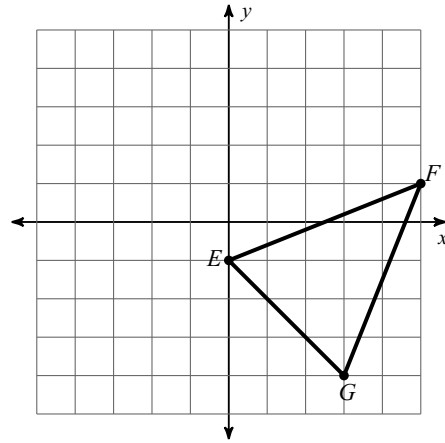
12) reflection across the y-axis



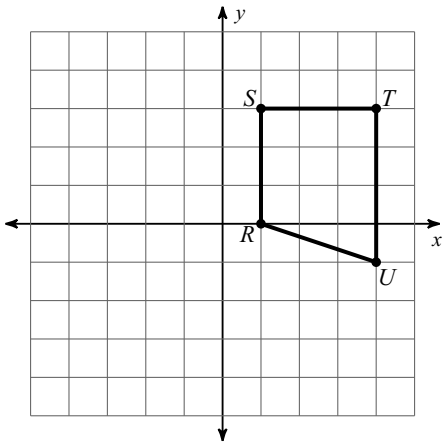
13) translation: 2 units right and 3 units up



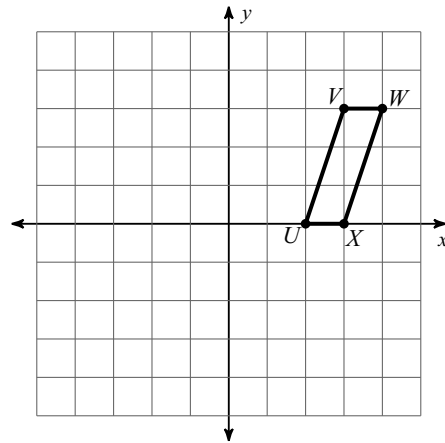
14) translation: 3 units left and 2 units up



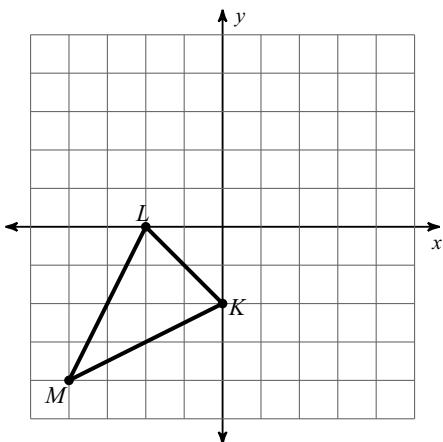
15) translation: 3 units left and 3 units down



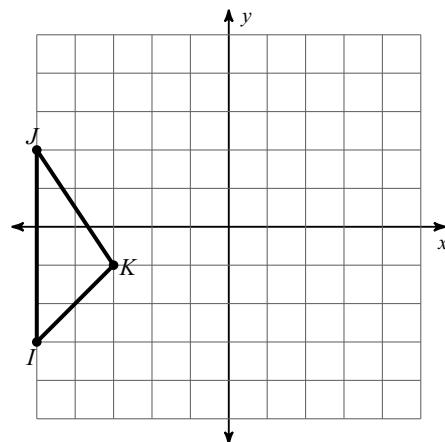
16) translation: 3 units left and 3 units down



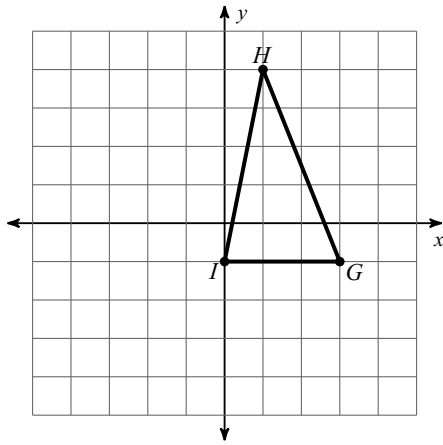
17) translation: $(x, y) \rightarrow (x + 3, y + 5)$



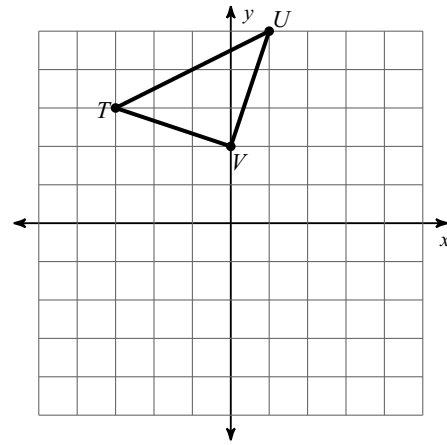
18) translation: $(x, y) \rightarrow (x + 1, y - 2)$



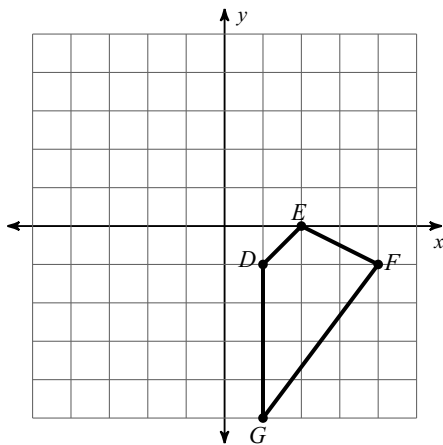
19) translation: $(x, y) \rightarrow (x - 1, y + 1)$



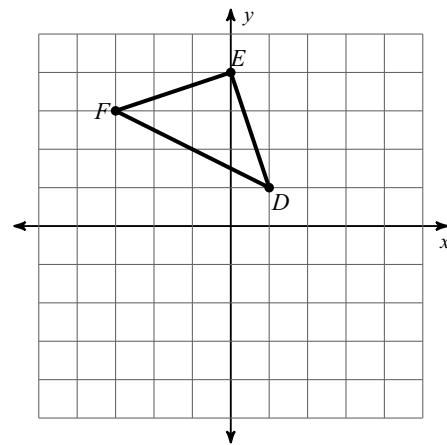
20) translation: $(x, y) \rightarrow (x + 1, y - 5)$



21) translation: $(x, y) \rightarrow (x - 4, y + 2)$

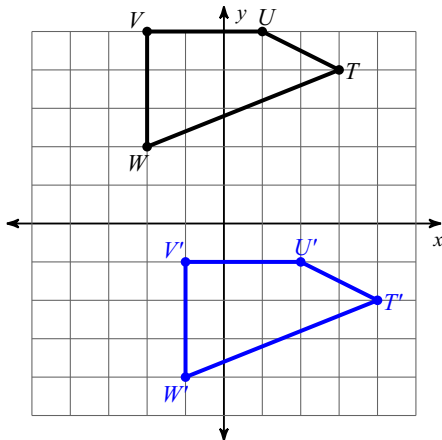


22) translation: $(x, y) \rightarrow (x + 1, y - 5)$

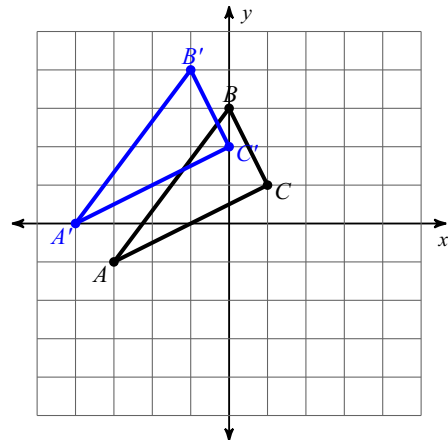


Write a rule to describe each transformation.

23)

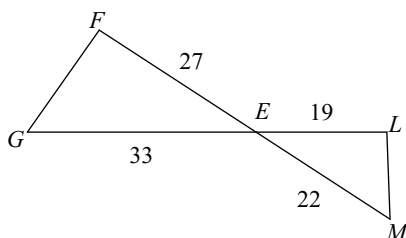


24)

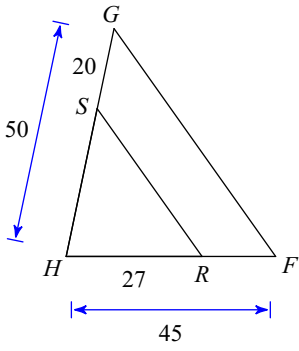


State if the triangles in each pair are similar. If so, state how you know they are similar.

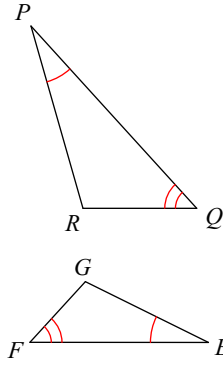
25) $\triangle EFG \sim \triangle ELM$



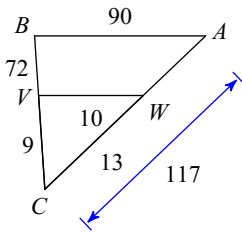
26)



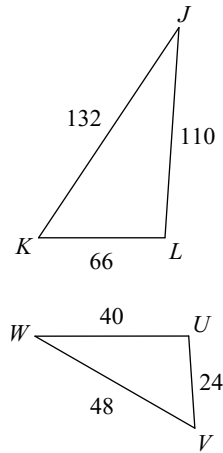
27) $\triangle PQR \sim \triangle EFG$



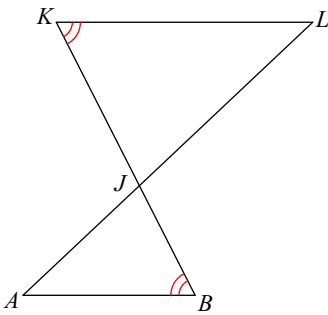
28)



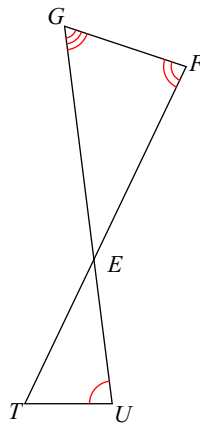
29)



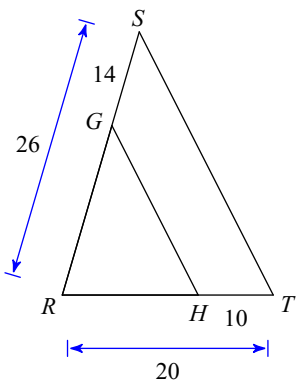
30)



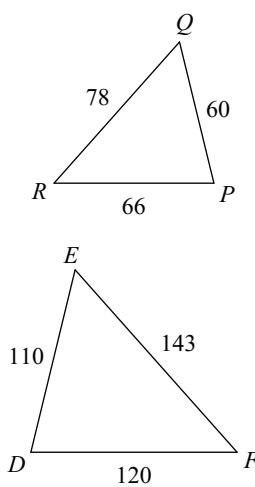
31)



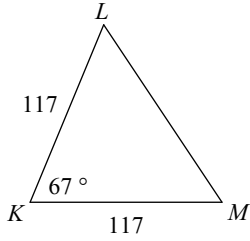
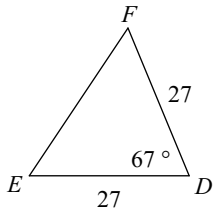
32)



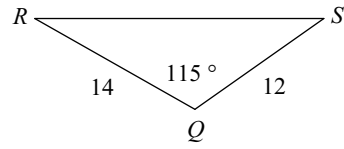
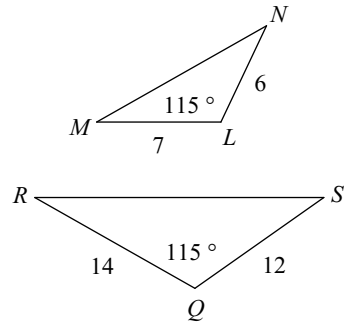
33)



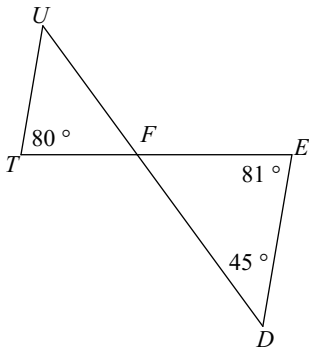
34)



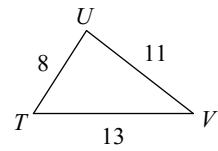
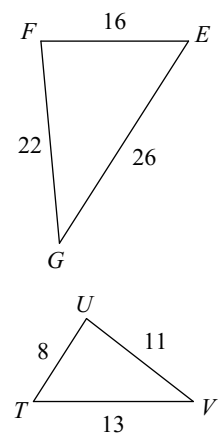
35)



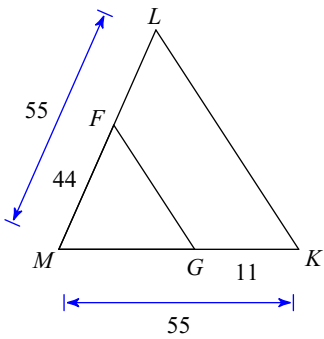
36)



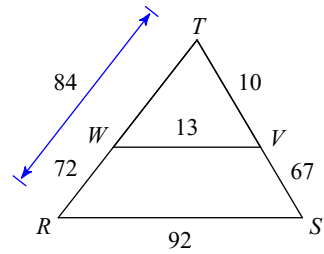
37)



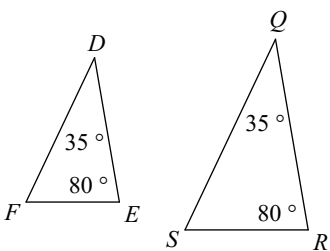
38)



39)

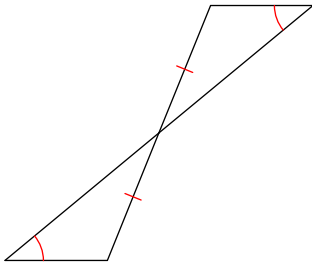


40)

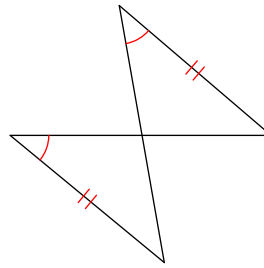


State if the two triangles are congruent. If they are, state how you know.

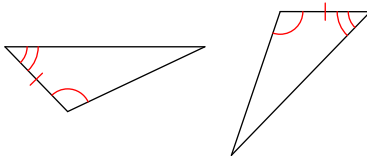
41)



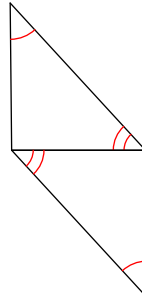
42)



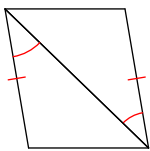
43)



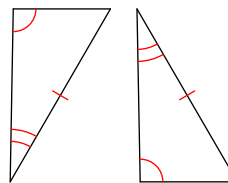
44)



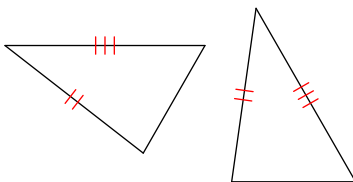
45)



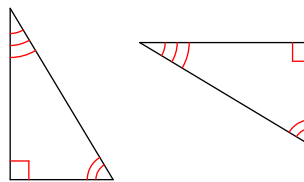
46)



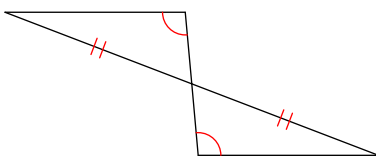
47)



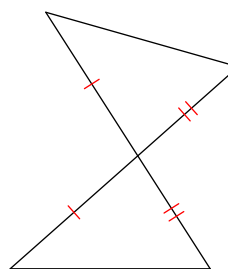
48)



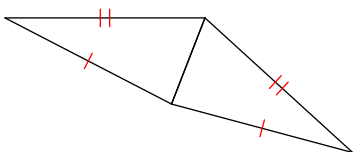
49)



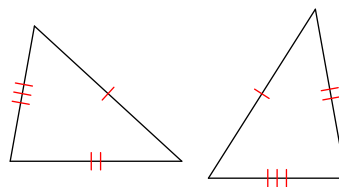
50)



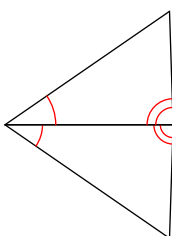
51)



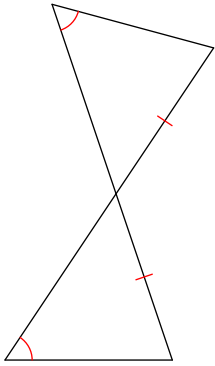
52)



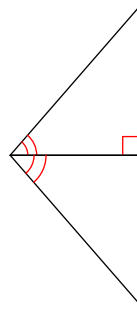
53)



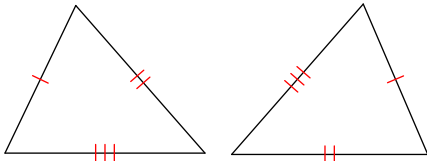
54)



55)

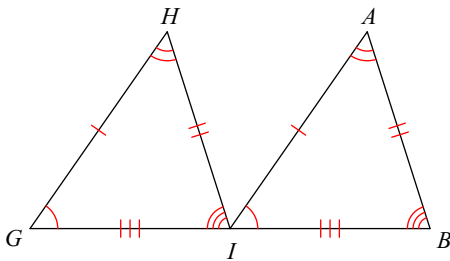


56)

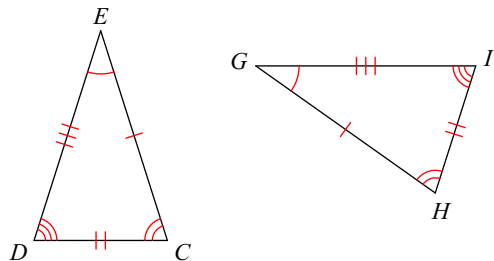


Write a statement that indicates that the triangles in each pair are congruent.

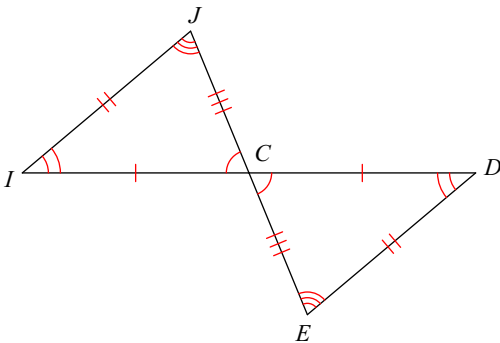
57)



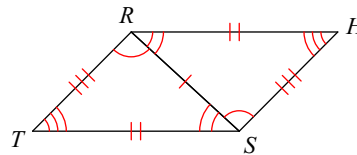
58)



59)

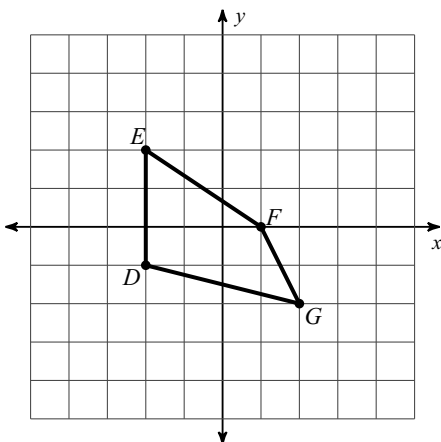


60)

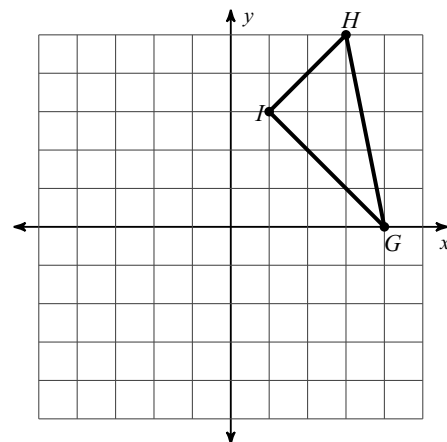


Graph the image of the figure using the transformation given.

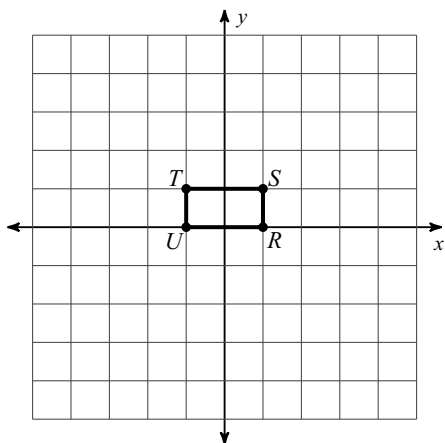
61) dilation of 2



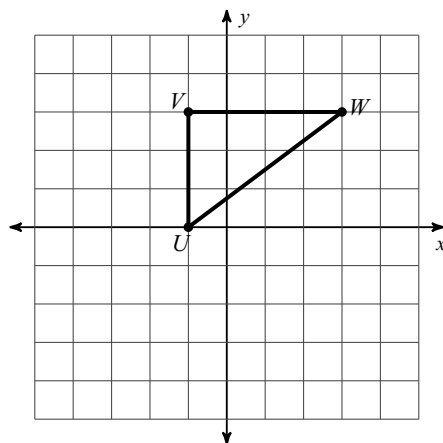
62) dilation of 0.5



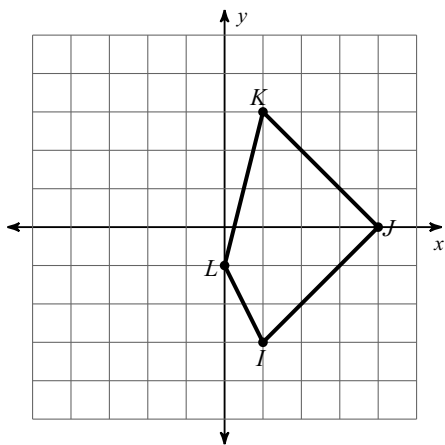
63) dilation of 4



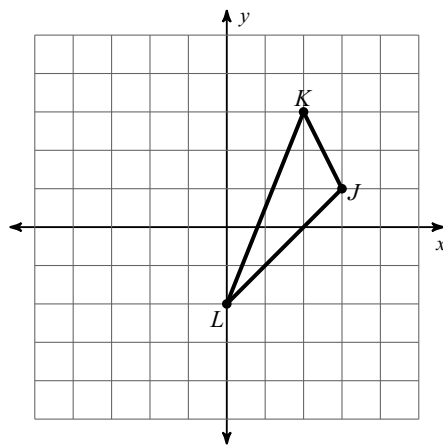
64) dilation of 1.5



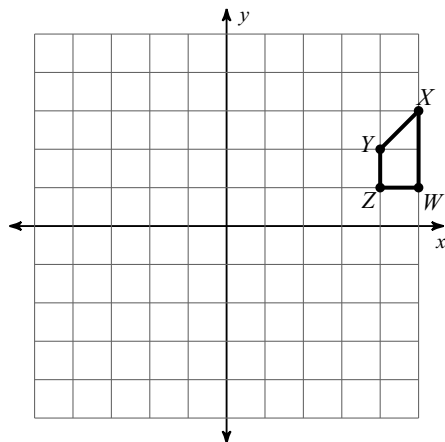
65) rotation 90° clockwise about the origin



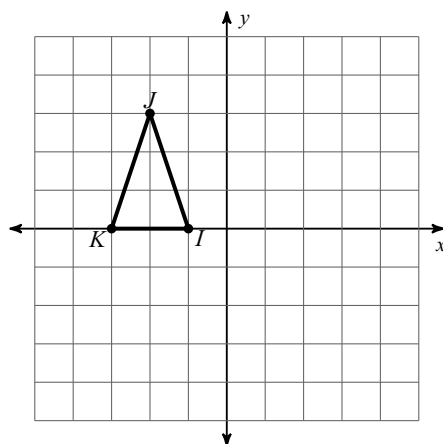
66) rotation 180° about the origin



67) rotation 180° about the origin

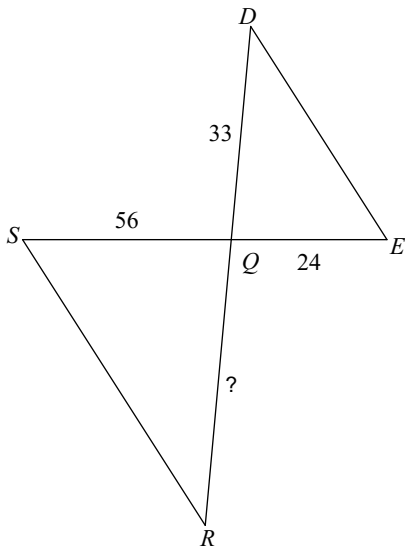


68) rotation 90° counterclockwise about the origin

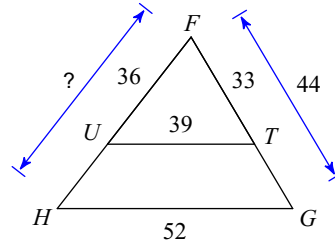


Find the missing length. The triangles in each pair are similar.

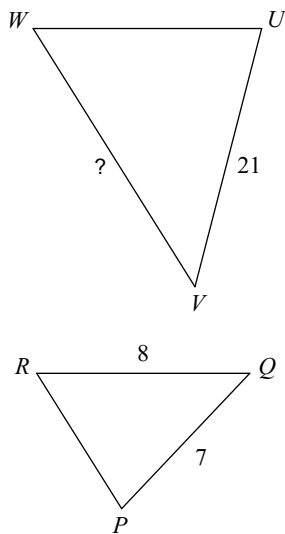
69) $\triangle QRS \sim \triangle QDE$



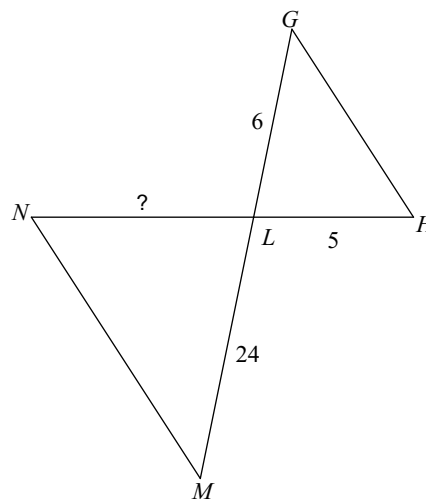
70)



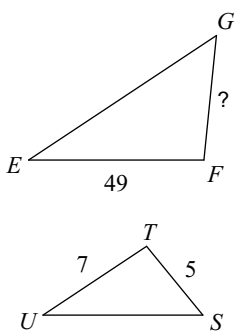
71) $\triangle WVU \sim \triangle RQP$



72) $\triangle LMN \sim \triangle LGH$



73) $\triangle EFG \sim \triangle UTS$



74)

