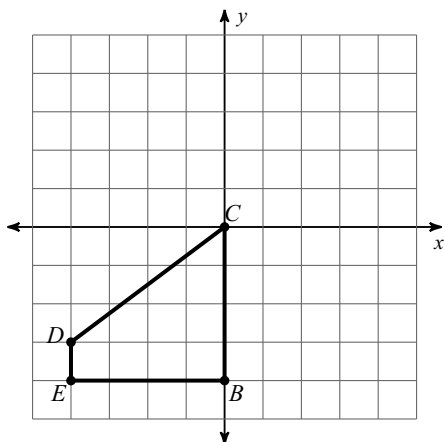


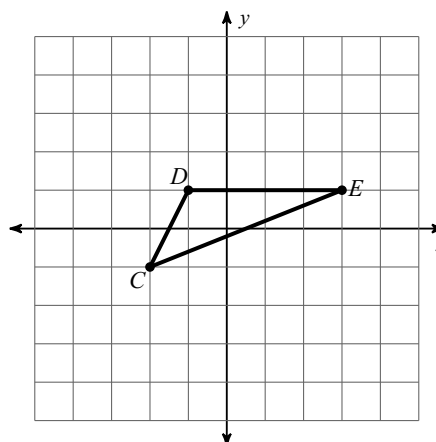
# 10.2 Transformation of Objects

**Graph the image of the figure using the transformation given.**

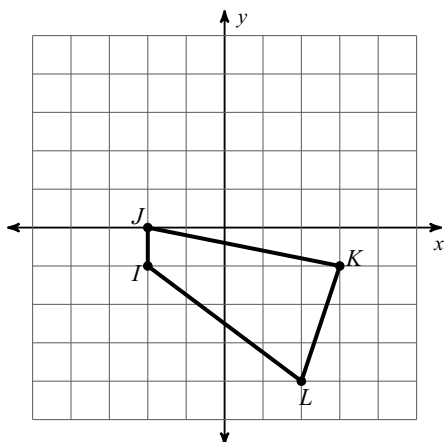
1) dilation of 0.5



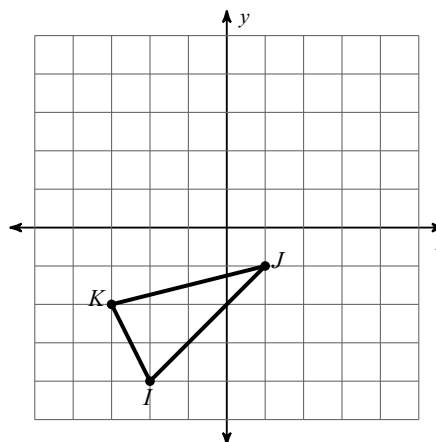
2) dilation of  $\frac{3}{2}$



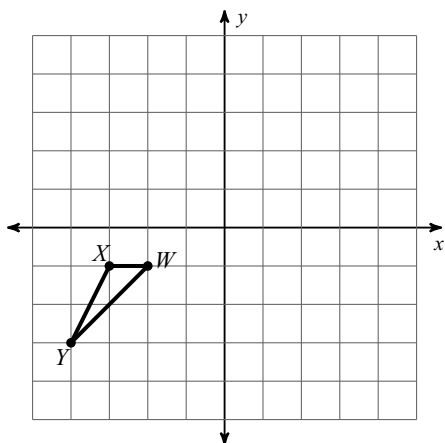
3) reflection across the x-axis



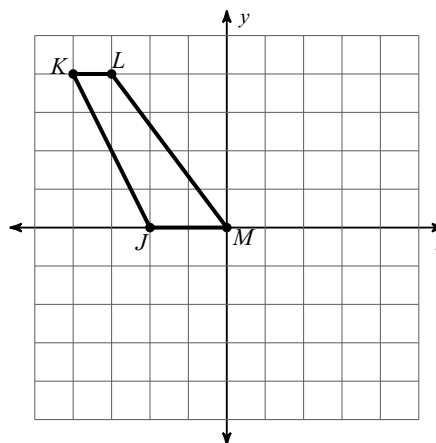
4) reflection across the y-axis



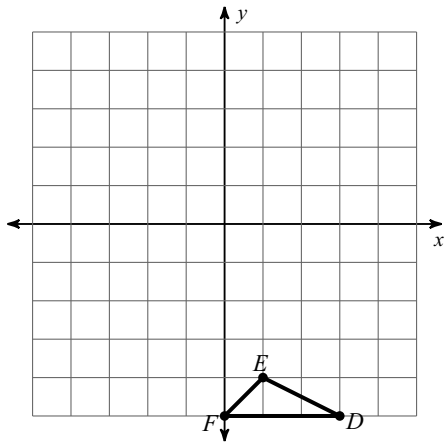
5) translation: 4 units right and 2 units up



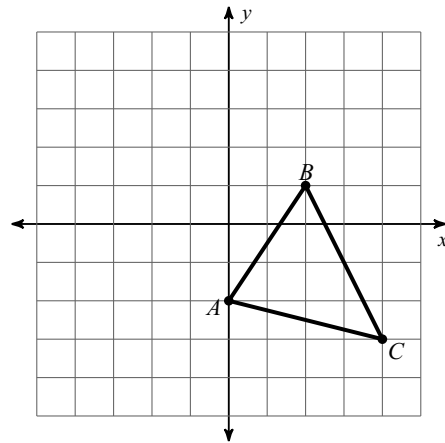
6) translation: 1 unit up



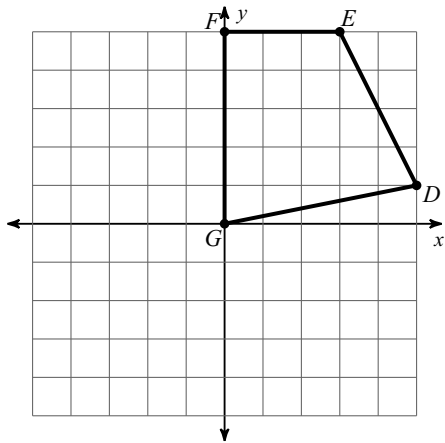
7) rotation  $90^\circ$  clockwise about the origin



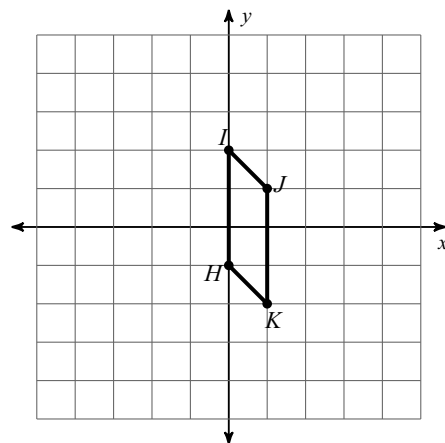
8) rotation  $180^\circ$  about the origin



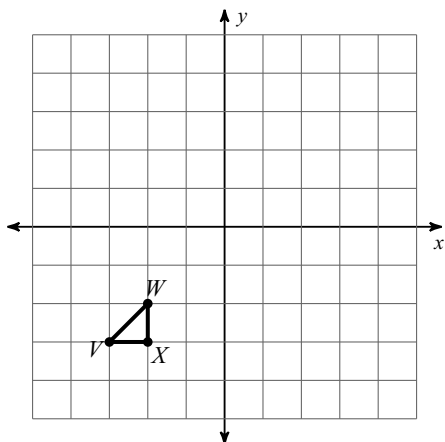
9) translation: 5 units left and 4 units down



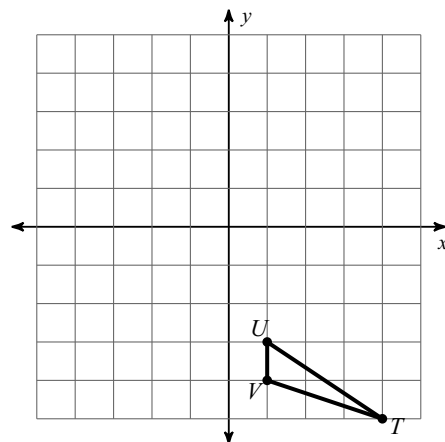
10) dilation of 2



11) reflection across the y-axis

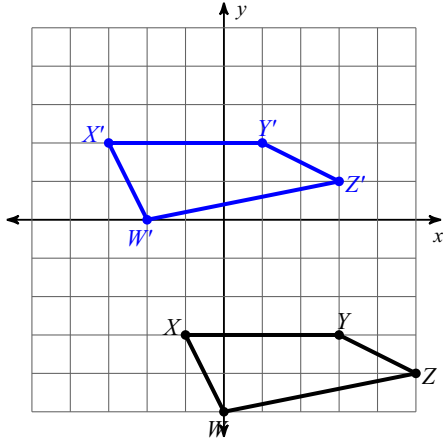


12) translation: 2 units left and 2 units up

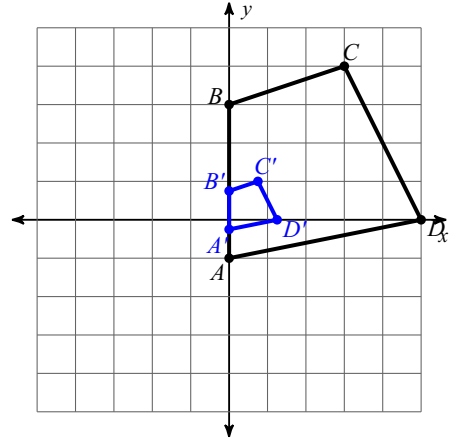


Write a rule to describe each transformation. Describe the Transformation

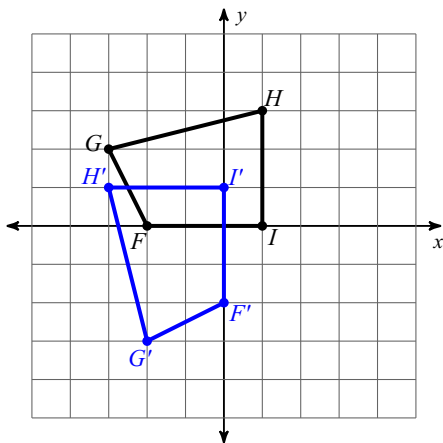
13)



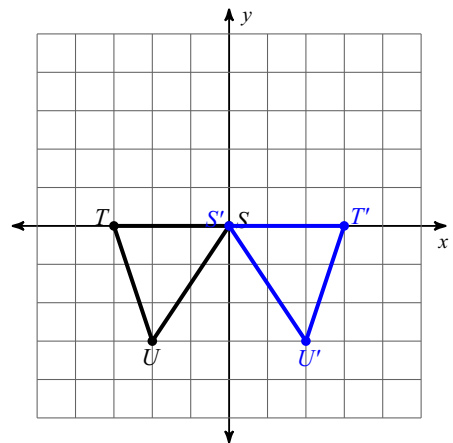
14)



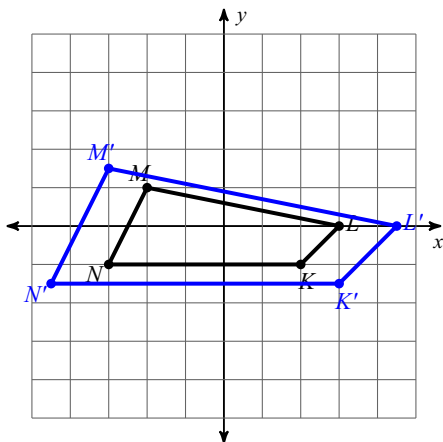
15)



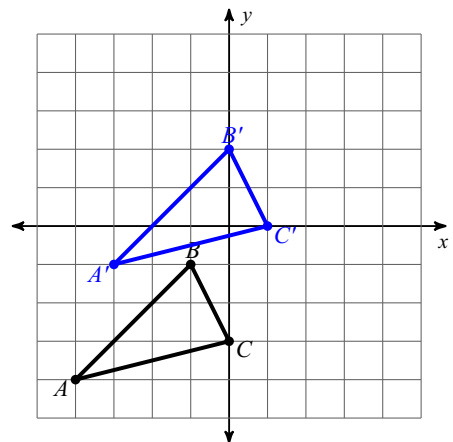
16)



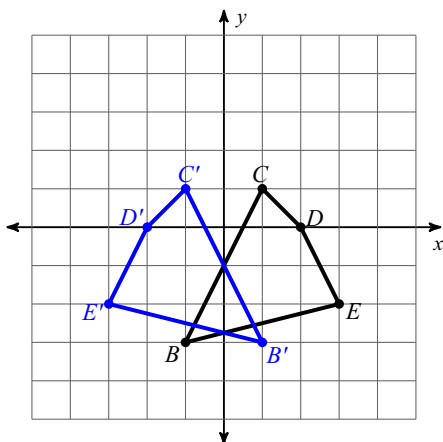
17)



18)



19)



20)

