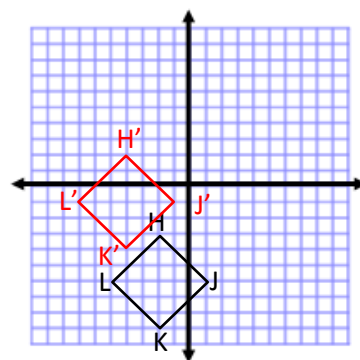
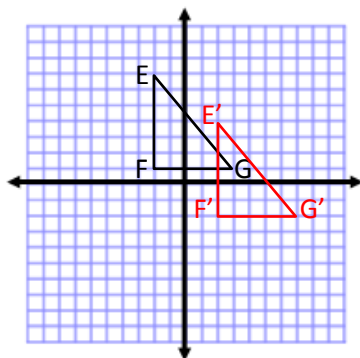
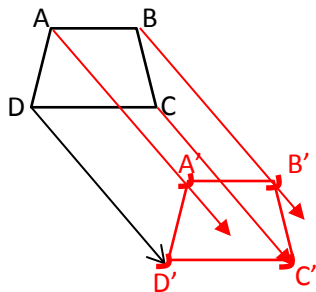


Translations:

Translate the preimage 3 units down and 4 units right.

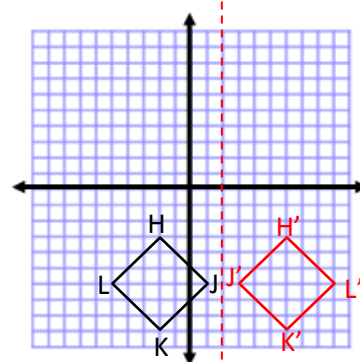
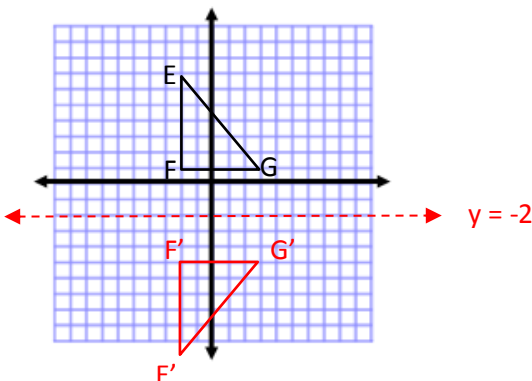
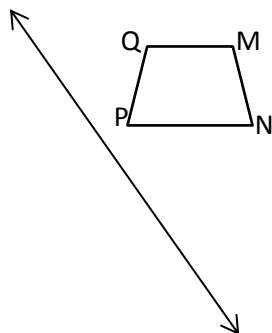
$$(x, y) \rightarrow (x + 4, y - 3)$$



Reflections:

Reflect the preimage across the line $y = -2$.

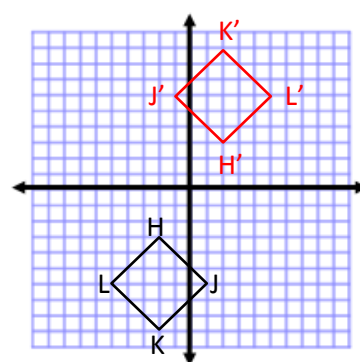
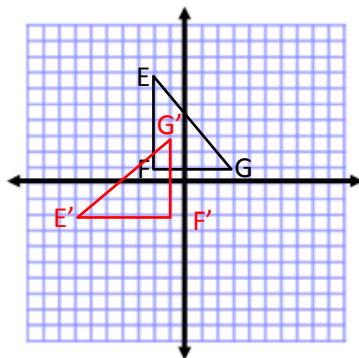
Reflect the preimage across the line $x = 2$.



Rotations:

Rotate the preimage 90° counter-clockwise about the origin.

Rotate the preimage 180° clockwise about the origin.



Dilations:

Dilate the preimage by a scale factor of 1.5 using W as the center of dilation.

Dilate the preimage by a scale factor of .5 using W as the center of dilation.

Given the preimage (dashed) and image (solid), find the center of dilation and scale factor.

