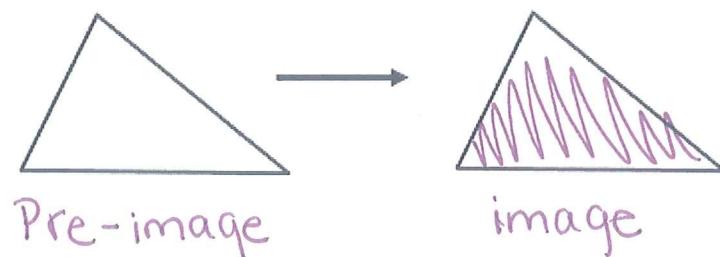
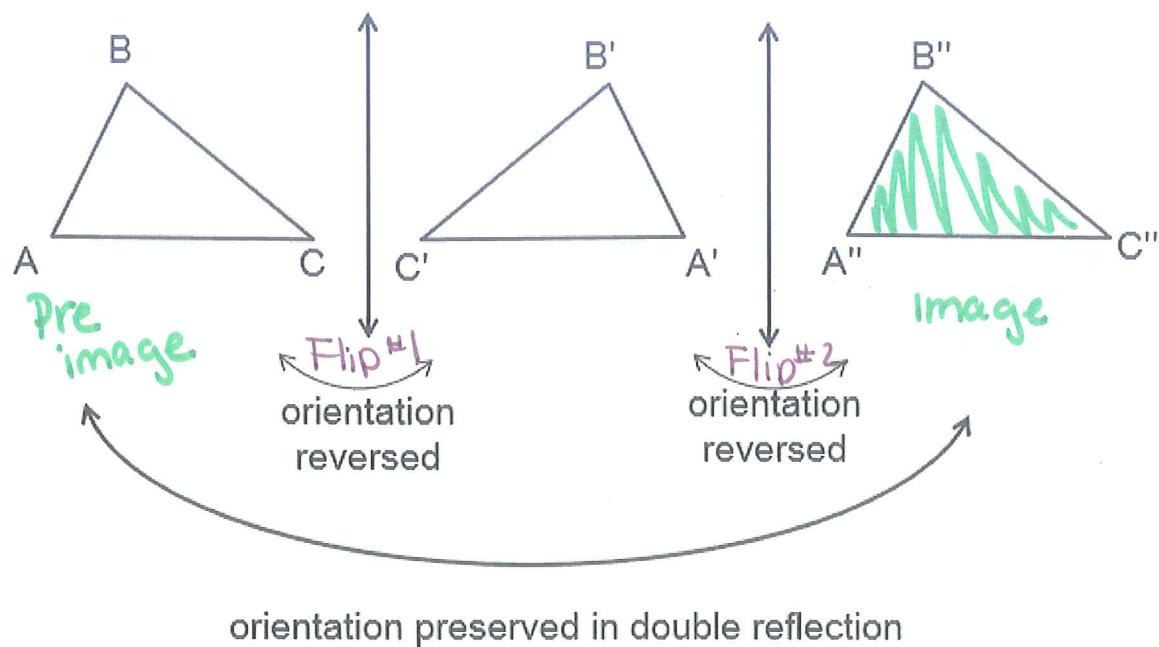


Translations Notes

Translation: Slide , does not change the orientation.



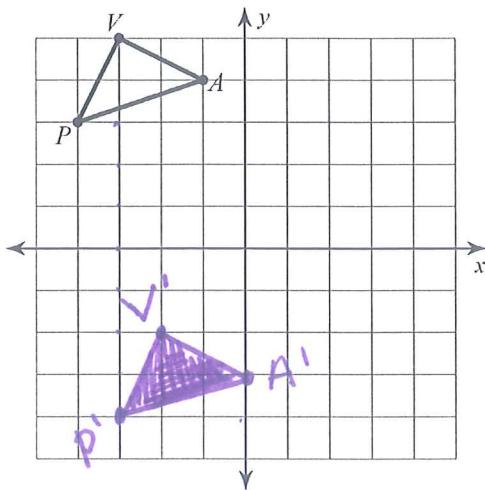
A translation can be defined in terms of reflections:



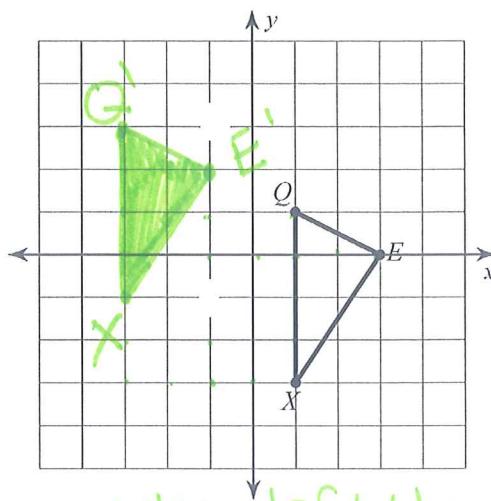
Note: The lines must be parallel.

Graph the image of the translation.

1. translation: $(x, y) \rightarrow (x + 1, y - 7)$



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



in words: Right 1 down 7

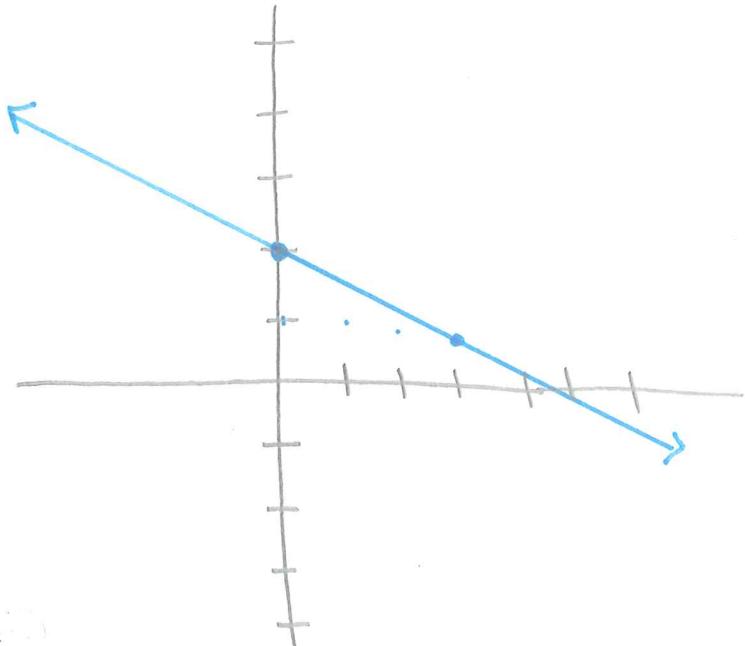
In words: left +4 up 2

remember → shade the image
Practice Graphing Lines: you want
me to grade :)

"Shade for a
grade" :)

Directions: Graph the following lines given the equation. If the equation is not in slope-intercept form, rewrite the equation in slope-intercept form prior to graphing. Make your own coordinate plane.

1. $y = -\frac{1}{3}x + 2$



2. $y + \frac{11}{3} = \frac{7}{3}x - \frac{1}{3}$

$-\frac{11}{3}$ $-\frac{11}{3}$

$$y = \frac{7}{3}x - \frac{12}{3}$$

$$\boxed{y = \frac{7}{3}x - 4}$$