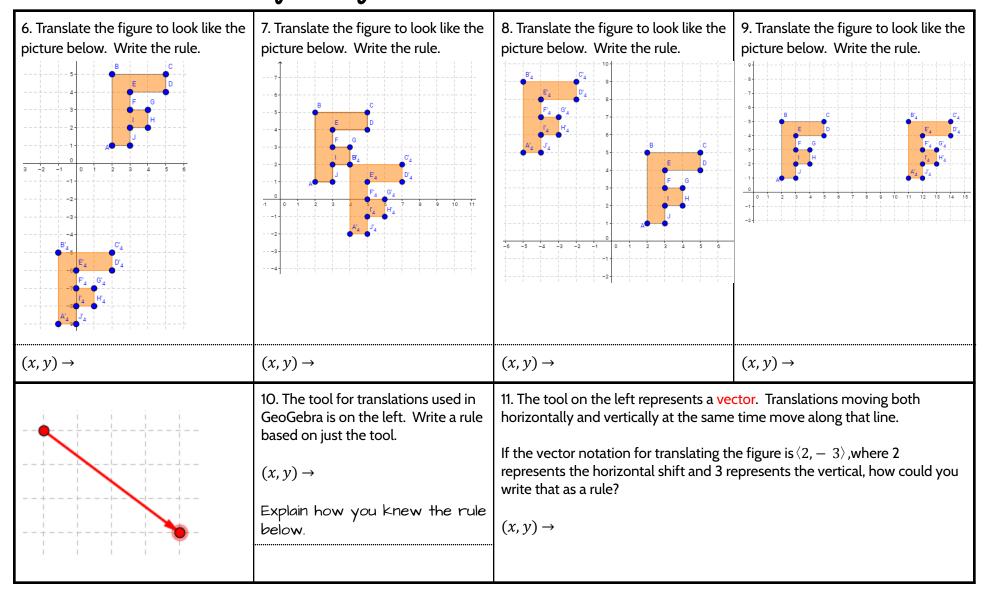
Exploring Rotations and Translations

<u>Class Starter</u>: Yesterday, you explored reflections across the lines y = a and x = b. Explore how the reflection #1 and reflection #2 show the relationship represented by 2a in your rules. Explain what you find.

Pairs Activity: Partner A will record answers for question one in this document. Partner B will explore on the <u>GeoGebra Activity</u>. Partners will switch roles after each question.

1. Record 3 points from the original figure in the GeoGebra Activity.					2. Rotate the figure about the origin 90° clockwise. Record the corresponding 3 points from the image in the table below.					3. Rotate the figure about the origin 180° clockwise. Record the corresponding 3 points from the image in the table below.				4. Rotate the figure about the origin 270° clockwise. Record the corresponding 3 points from the image in the table below.			
	Point Name	х	У		Point Name	х	У	-		Point Name	х	У		Point Name	х	У	
Wr	rite the rul	e as (x,)	y)changes	(x	$(x,y) \rightarrow$					$(x,y) \rightarrow$				$(x,y) \rightarrow$			
5.\	What hap	pens if y	ou rotate the c	original f	figure 90° (counter	clockwise?	Explain.	ı.								

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12. From the list of possible transformations on GeoGebra, which one does NOT produce congruent figures. Justify your answer.