## Online HW 5: Transformations

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## Toward Congruence and Similarity

 $Short\text{-}answer\ problems\ about\ transformations.$ 

**Question 1** What is your name?

**Question 2** What is required to specify a translation?

**Question 3** What is required to specify a rotation?

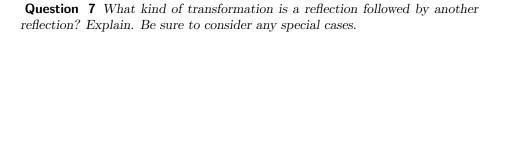
 $\label{eq:author} Author(s) \hbox{: Bart Snapp and Brad Findell}$ 

					,	Toward	Congrue	ence and	l Simila	rity
Question	4	What	is requir	red to spe	ecify a	reflectio	on?			

Sometimes a sequence of transformations can be described as a single translation, rotation, or reflection.

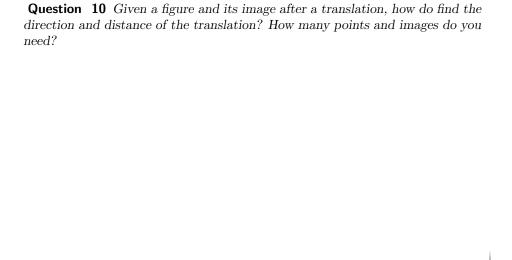
**Question 5** What kind of transformation is a translation followed by a translation? Explain. Be sure to consider any special cases.

**Question 6** What kind of transformation is a rotation followed by a rotation? Explain. Be sure to consider any special cases.



**Question 8** Will the letter F look like an F after a reflection? What about after a sequence of two reflections? What about after a sequence of 73 or 124 reflections? Explain your reasoning.

**Question 9** How will your answer to the previous problem change if you use a capital D? Explain.



**Question 11** Given a figure and its image after a reflection, how do you find the line of reflection? How many points and images do you need?

**Question 12** Given a figure and its image after a rotation, how do you find the center and the angle of the rotation? How many points and images do you need?

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