
Online Homework: Transformations

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February 22, 2018

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Toward Congruence and Similarity

Short-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?*

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Question 4 *What is required to specify a reflection?*

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 7 *What kind of transformation is a reflection followed by another reflection? 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 10 Given a figure and its image after a translation, how do you find the direction and distance of the translation? How many points and images do you need?

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?

