

Name: _____

Period: _____

Date: _____

Geometry: Open Response

ALL work must be done in the grid below.

1. Given the triangle whose vertices are A(1,2), B(1,6), and C(4,2):
 - a. Graph and label the triangle.
 - b. Reflect the given triangle across the y-axis and describe the rule for this transformation.
 - c. Translate the given triangle 8 units down and 4 units to the right and describe the rule for this transformation: $(x, y) \rightarrow (\rule{1cm}{0.4pt}, \rule{1cm}{0.4pt})$
 - d. Rotate the given triangle 180° around the origin.
 - e. Dilate the given triangle by a factor of 2 with the center of dilation at (0, 0).

