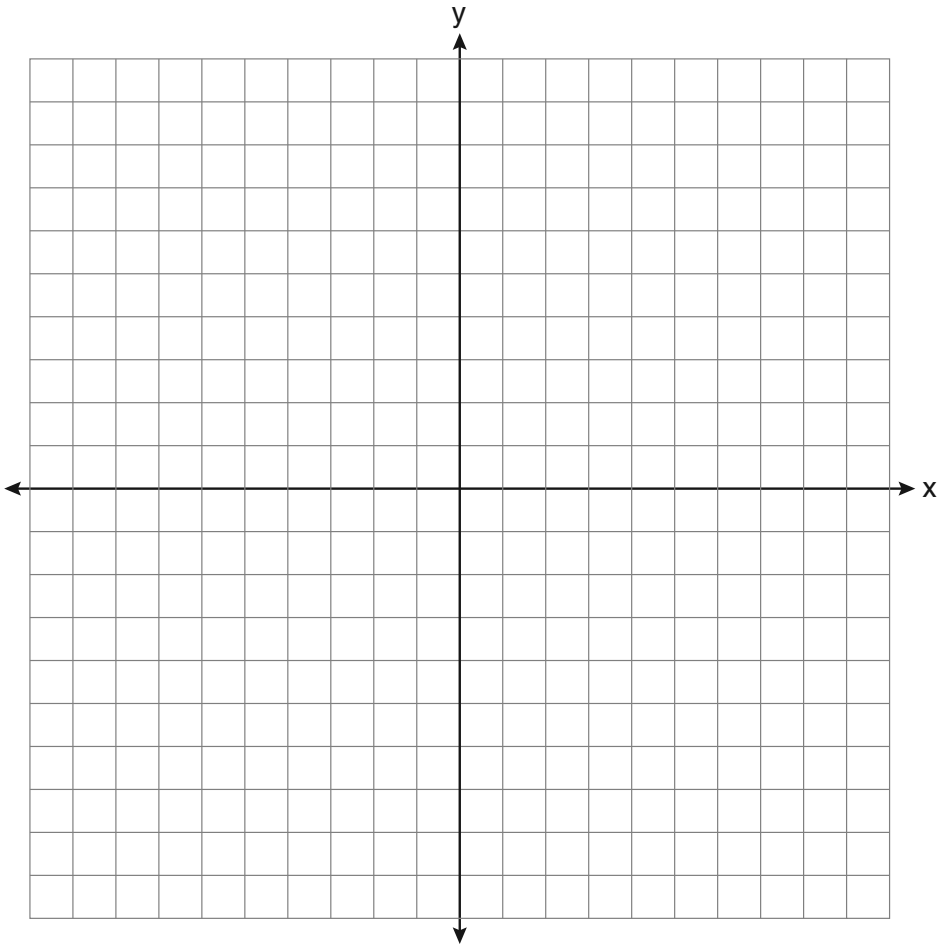
BECA / Dr. Huson / Geometry Name:
17 March 2017

Homework: Rigid motions review

1. Triangle ABC has the vertices $A(1,2)$, $B(2,5)$, and $C(7,4)$. Find the coordinates of $\Delta A'B'C'$, the image of ΔABC under the transformation $T_{-2,-7}$

   Graph and label both triangles. What is the relationship of the lengths of the sides of the two triangles? Justify your answer.



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2. Quadrilateral *MATH* has the vertices *M*(-2,-1), *A*(1,3), *T*(6,3), and *H*(3,-1). Plot and label the image of quadrilateral *MATH* under the transformation $r_{\text{x-axis}}$

   State the coordinates of the image. Justify why distances are preserved by the reflection. What type of quadrilateral is *MATH*?