a. Find a sequence of transformations that maps one figure to the other. The starred figure is the preimage.
b. Write a congruency statement (i.e. $\triangle A B C \cong \triangle D E F$ ). The order of the letters matters!
1.

2.

3.

4.

c. For \#2 and \#3 above, identify all congruent parts.
a Find a sequence of transformations that maps one figure to the other. The starred figure is the preimage.
b. Write a congruency statement (i.e. $\triangle A B C \cong \triangle D E F$ ). The order of the letters matters!

6.

7.

8.

Which sequence of transformations does not map a figure onto a congruent figure? Explain.
A. Rotation of $180^{\circ}$ about the origin, reflection across the $x$-axis, horizontal translation $(x, y) \rightarrow(x+4, y)$
B. Reflection across the $y$-axis, combined translation $(x, y) \rightarrow(x-5, y+2)$
C. Rotation of $180^{\circ}$ about the origin, reflection across the $y$-axis, dilation $(x, y) \rightarrow(2 x, 2 y)$
D. Counterclockwise rotation of $90^{\circ}$ about the origin, reflection across the $y$-axis, combined translation $(x, y) \rightarrow(x-11, y-12)$

