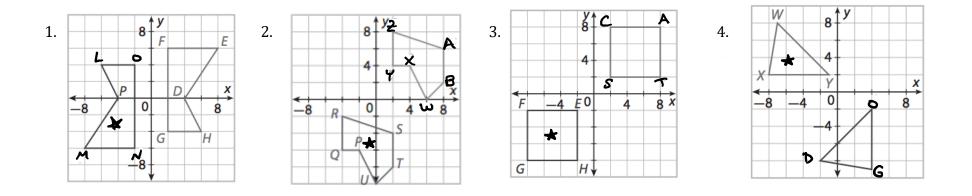
a. Find a sequence of transformations that maps one figure to the other. **The starred figure is the <u>preimage</u>**. b. Write a congruency statement (i.e.  $\triangle ABC \cong \triangle DEF$ ). The order of the letters matters!



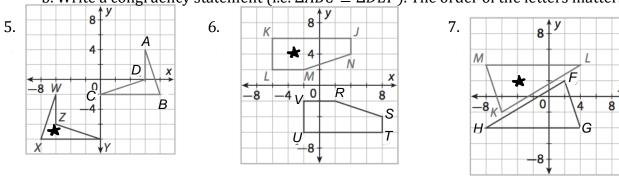
c. For #2 and #3 above, identify <u>all</u> congruent parts.

<u>#2</u>

<u>#3</u>

a Find a sequence of transformations that maps one figure to the other. The starred figure is the <u>preimage</u>. b. Write a congruency statement (i.e.  $\triangle ABC \cong \triangle DEF$ ). The order of the letters matters!

X





Which sequence of transformations does not map a figure onto a congruent figure? Explain.

- **A.** Rotation of 180° 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° about the origin, reflection across the *y*-axis, dilation  $(x, y) \rightarrow (2x, 2y)$
- **D.** Counterclockwise rotation of 90° about the origin, reflection across the *y*-axis, combined translation  $(x, y) \rightarrow (x 11, y 12)$