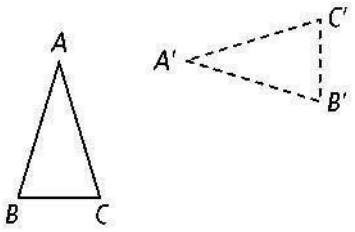
Name :----------Class:---------- Date---------

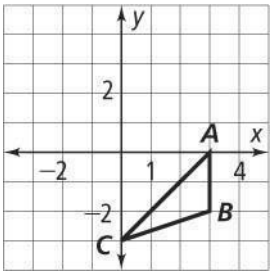
HW-46 **Translations**

In each diagram, the dashed-line figure is an image of the solid-line figure. (a) Choose an angle or point from the preimage and name its image.
(b) List all pairs of corresponding sides.

1.



2) **Graph the image of each figure under the given translation.**

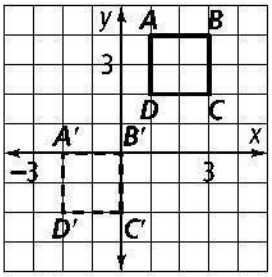
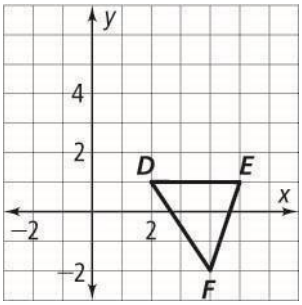


2. $(x, y) \rightarrow (x - 1, y + 4)$

3) Triangle XYZ has coordinates X (2, 3), Y (1, 4), and Z (8, 9). A translation maps X to X' (4, 7). What are the coordinates for Y' and Z' for this translation?

The dashed-line figure is a translation image of the solid-line figure. Write a rule to describe the translation.

4.



5. For the translation rule $(x, y) \rightarrow (x - 3, y + 2)$ Find the image of the figure DEF.