

Reteaching 3-6

Translations

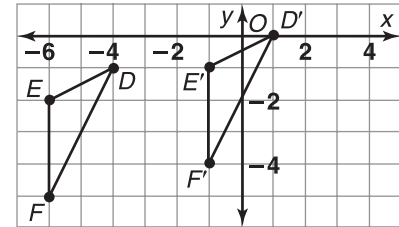
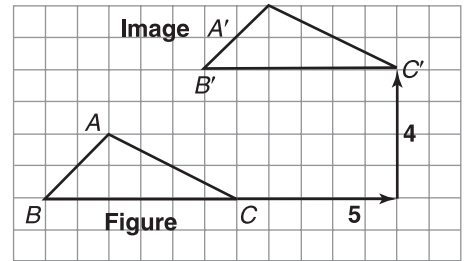
A *translation* moves every point of a figure the same distance in the same direction.

Triangle ABC is translated 5 units to the right and 4 units up. The *image* of $\triangle ABC$ is $\triangle A'B'C'$.

You can write a rule to describe a translation in the coordinate plane.

To get the translation of $\triangle DEF$, you have to add 5 to each x -coordinate and add 1 to each y -coordinate.

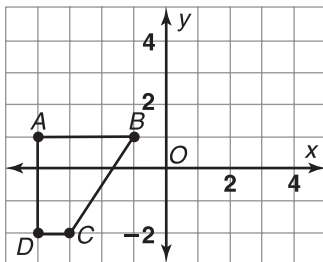
- $D(-4, -1) \rightarrow D'(1, 0)$
- $E(-6, -2) \rightarrow E'(-1, -1)$
- $F(-6, -5) \rightarrow F'(-1, -4)$
- $(x, y) \rightarrow (x + 5, y + 1)$



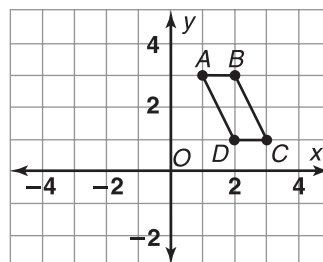
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Copy each figure. Then graph the image after the given translation. Name the coordinates of the image.

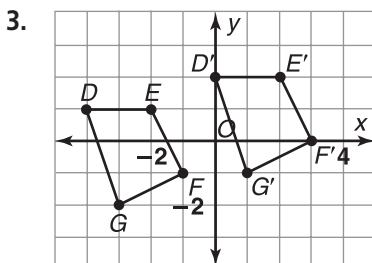
1. right 5 units, up 1 unit

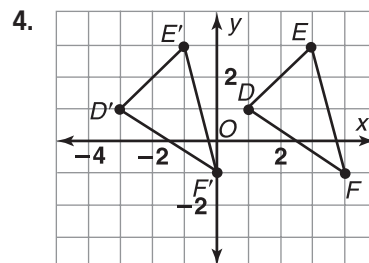


2. left 3 units, down 2 units



Use arrow notation to write a rule that describes the translation shown on each graph.





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