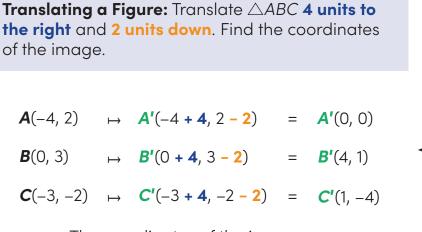
Transformations on the Coordinate Plane: Translations

A **translation** is a type of transformation that slides every point in a figure the same distance and direction without rotating or resizing. Here is a rule to find the points of a translated figure:

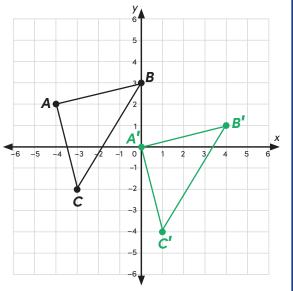


- When translating to the right, **h** is positive.
- When translating to the left, **h** is negative.
- When translating up, **k** is positive.
- When translating down, **k** is negative.

<u>Note</u>: For translations, the preimage and its image are congruent!



The coordinates of the image are A'(0, 0), B'(4, 1), and C'(1, -4).

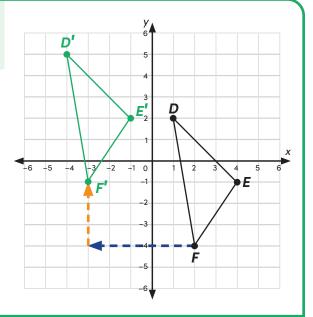


Describing a Translation: Describe the translation of $\triangle DEF$ to $\triangle D'E'F'$.



You can also describe this with a rule:

 $(x, y) \mapsto (x - 5, y + 3)$



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