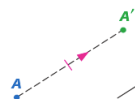


9-2**Translation****Translation**

A "slide" moves all point(s) in the same direction over the same distance

Point A has been translated a specific distance and is now called A'

***REMINDER**

The original point is called the *Pre-Image*, the point after the reflection occurred is called the *Image*.

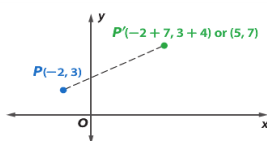
VECTOR - The direction you are going to move

Translation in the Coordinate Plane

Words To translate a point along vector $\langle a, b \rangle$, add a to the x -coordinate and b to the y -coordinate.

Symbols $(x, y) \rightarrow (x + a, y + b)$

Example The image of $P(-2, 3)$ translated along vector $\langle 7, 4 \rangle$ is $P'(5, 7)$.



Graph the following transformation:

$\triangle DFG$ with vertices $D(-8, 8)$, $F(-10, 4)$, and $G(-7, 6)$; $\langle 5, -2 \rangle$

