3.6 Transformations of Graphs of Linear Functions PART 1

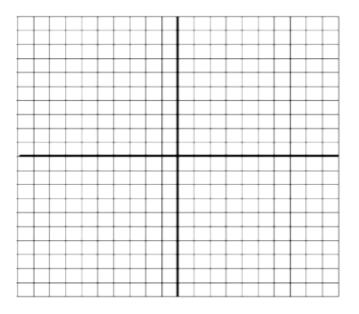
Essential Question:

A translation is a _____.

EXAMPLE 1 Horizontal and Vertical Translations

Let f(x) = 2x - 1. Graph (a) g(x) = f(x) + 3 and (b) t(x) = f(x + 3). Describe the transformations from the graph of *f* to the graphs of *g* and *t*.

Graph (a) g(x) = f(x) + 3 in the graph here:



Vertical Translation Rules:

Graph (b) t(x) = f(x+3) in the graph here:

Horizontal Translation Rules:

