

Linear Translation Practice

Directions: For each of the graph sets below, graph the base graph and then translate your equation and graph as directed.

Graph: $y - 2 = \frac{2}{5}(x - 7)$

A.) Translate Vertically 2 units up

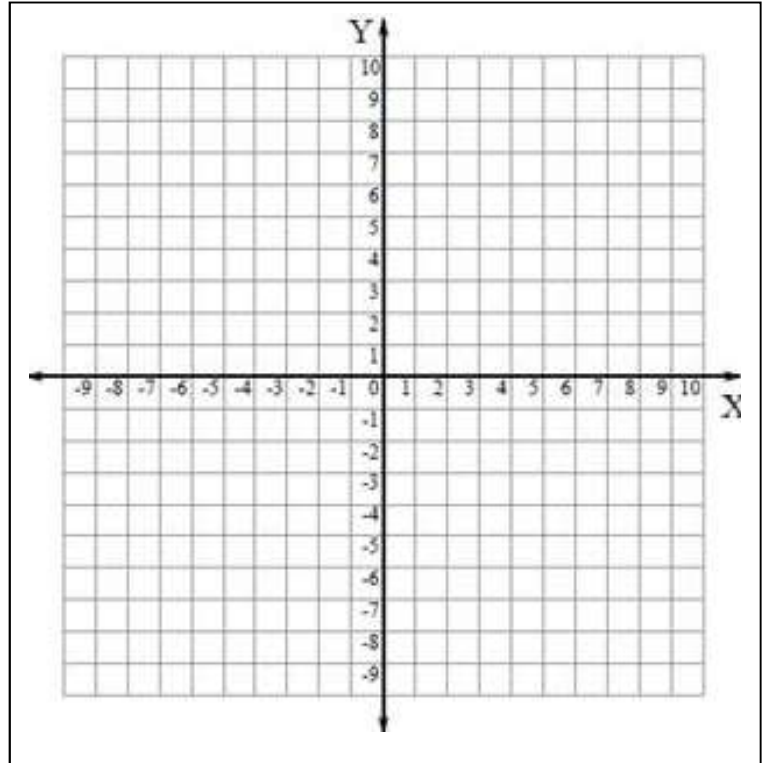
New Equation: _____

B.) Translate Horizontally left 4

New Equation: _____

BONUS: Translate ($x \rightarrow x - 2$, $y \rightarrow y + 3$)

New Equation: _____



Graph: $y = -\frac{1}{3}x + 2$

C.) Translate Vertically 4 units down

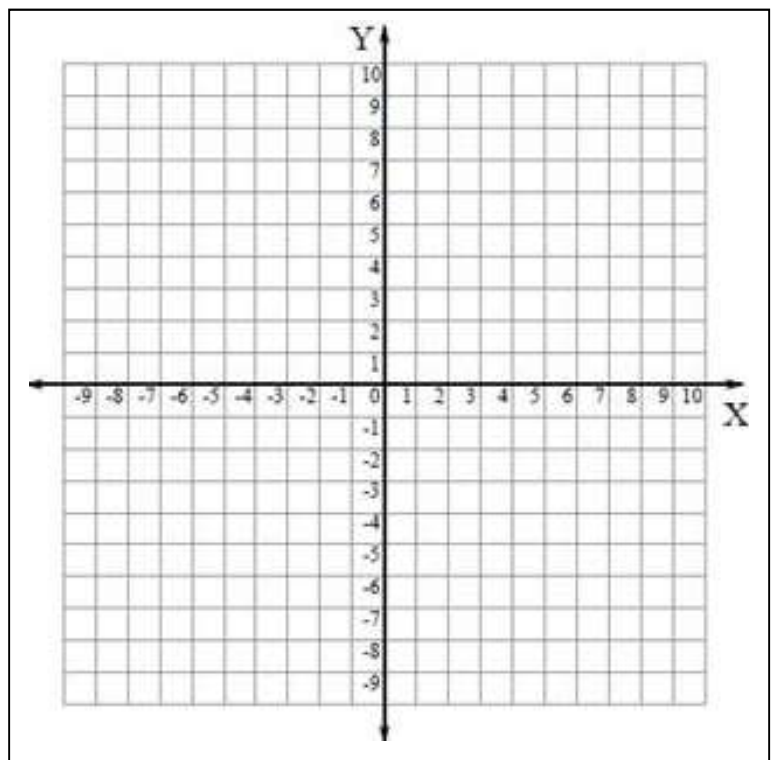
New Equation: _____

D.) Translate Horizontally left 6

New Equation: _____

BONUS: Translate ($x \rightarrow x + 5$, $y \rightarrow y - 6$)

New Equation: _____



Graph: $y = -2x - 3$

E.) Translate Vertically 7 units up

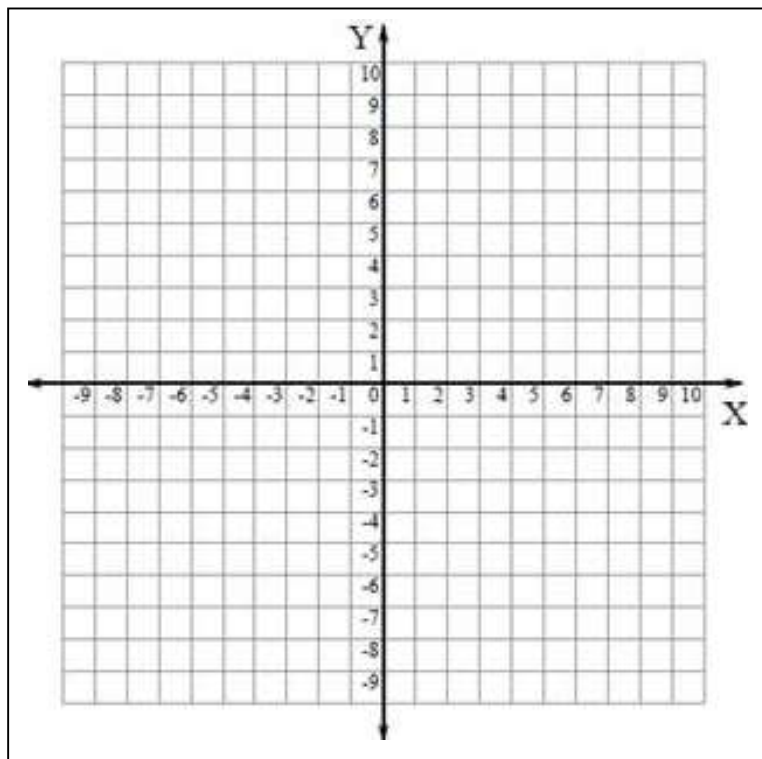
New Equation: _____

F.) Translate Horizontally left 2

New Equation: _____

BONUS: Translate ($x \rightarrow x - 4$, $y \rightarrow y + 1$)

New Equation: _____



Graph: $y + 4 = \frac{4}{3}x - 2$

G.) Translate Vertically 6 units up

New Equation: _____

H.) Translate Horizontally right 3 units

New Equation: _____

BONUS: Translate ($x \rightarrow x + 1$, $y \rightarrow y + 4$)

New Equation: _____

