

CHANGING M & B**M****B** $M > 1$: LINE IS**STEEPER** $0 < M < 1$ (FRACTION):

LINE IS

LESS STEEPER**+** B:LINE MOVES **UP****-** B:LINE MOVES **DOWN**

PUTTING LINES IN SLOPE INTERCEPT

$$y = mx + b$$

Ex #1:

$$\begin{array}{r} -4x - y = 9 \\ +4x \quad +4x \\ \hline -y = 4x + 9 \\ \hline \underline{-1} \quad \underline{-1} \quad \underline{-1} \end{array}$$

$$y = -4x - 9$$

Ex #2:

$$\begin{array}{r} y + 4 = 2(x + 3) \\ y + 4 = 2x + 6 \\ \hline \underline{-4} \quad \underline{-4} \end{array}$$

$$y = 2x + 2$$