

# Linear Equations

Standard form:  $y = mx + b$      $m$  equals slope always a fraction

$b$  is  $y$  intercept  
 $y$  int is  $(0, b)$

Example  $y = 4x + 2$     Slope is  $4/1$   $y$  int is  $(0, 2)$

$y = 1/3x - 4$     Slope is  $1/3$   $y$  int is  $(0, -4)$

$y = -2x + 2$     Slope is  $-2/1$   $y$  int is  $(0, 2)$

Slope is  $\frac{\text{Rise}}{\text{Run}} = \frac{\text{Y distance}}{\text{X distance}}$