August 27, 2018

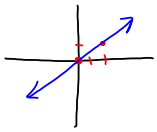
7.1.8 $3x - 6y = 0$, $-3x$ $y = mx + b$

$\frac{-6y}{-6} = \frac{-3x}{-6} + \frac{0}{-6}$

$y = \frac{1}{2}x + 0$

$y = \frac{x}{2}$

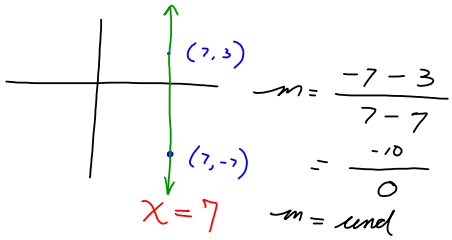
x	y
2	0
0	1



Aug 27-11:00 AM

Aug 27-11:20 AM

$(7, -7)$ & $(7, 3)$



$m = \frac{-7-3}{7-7} = \frac{-10}{0}$

$x = 7$ $m =$ undef

$x + 0y = 7$

$x = 7$

Aug 27-11:21 AM

(yr, L.E.) = (1984 = 0, 75.7) & (yr, L.E.) = (1998 = 14, ?)

Rate of Change = 0.25 per

$\frac{25}{100} = \frac{1}{4} = \frac{\text{L.E.}}{\text{yr}}$

$y - y_1 = m(x - x_2)$

$y - 75.7 = .25(x - 0)$

$y - 75.7 = .25x$

$y = .25x + 75.7$

$y = .25(14) + 75.7$

$= 3.5 + 75.7$

$y = 79.2$ L.E.

Aug 27-11:32 AM