



Oct 12-7:24 PM

$$y = mt + b$$

$$\begin{array}{|c|c|} \hline t & y \\ \hline 0 & 1 \\ 1 & -2 \\ \hline \end{array}$$

$$\left\{ \begin{array}{l} x = 2t + 4 \\ y = -3t + 1 \end{array} \right. \quad 0 \leq t \leq 1$$

$$m = \frac{-2-1}{1-0} = -3$$

$$y = -3t + b$$

$$1 = b$$

$$y = -3t + 1$$

Oct 12-7:31 PM

Ex: Parameterize the line segment from  $(-1, 5)$  to  $(2, 3)$  so that the line is at  $(-1, 5)$  when  $t=0$  and at  $(2, 3)$  when  $t=1$ .

$x = ? \quad x = 3t - 1$   
 $\left\{ \begin{array}{l} x = ? \\ y = ? \end{array} \right. \quad y = -2t + 5$

Oct 12-7:32 PM