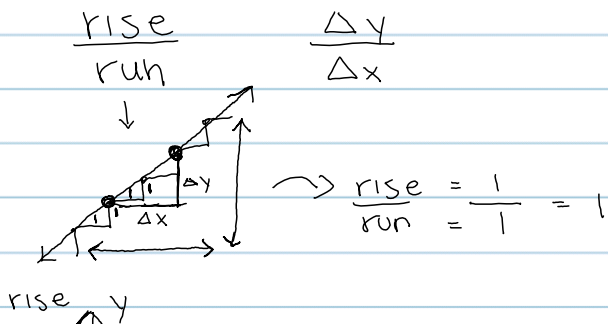


A3 - Honors Alg 2

9/10/10

Anika

Slope

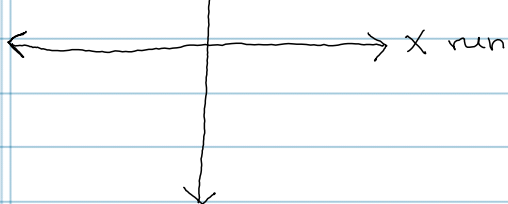


12 inch horiz. $\frac{6}{12} = \frac{1}{2}$
6 inch vert.

$m = \frac{y_2 - y_1}{x_2 - x_1}$

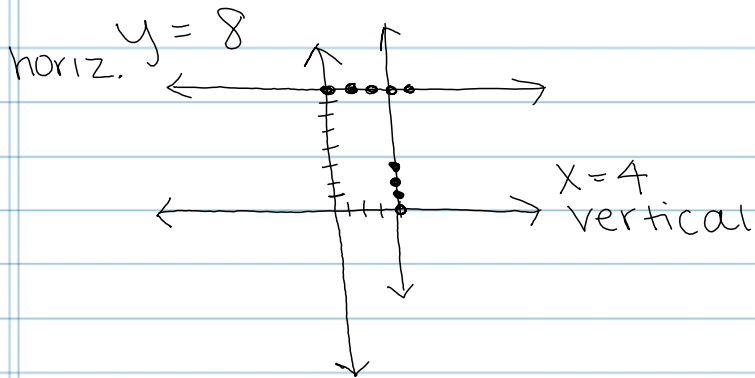
$\frac{7 - 3}{4 - 2} = \frac{4}{2} = 2$

$(2, 3)$ $(4, 7)$
 (x_1, y_1) (x_2, y_2)



$m = \frac{y}{0} = \text{undefined} - \text{vertical}$

$m = \frac{0}{x} = \text{no slope} - \text{horizontal}$

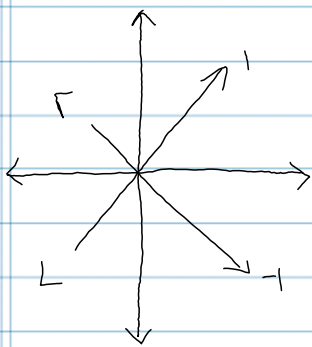


$y = mx + b$ ← slope
y-int

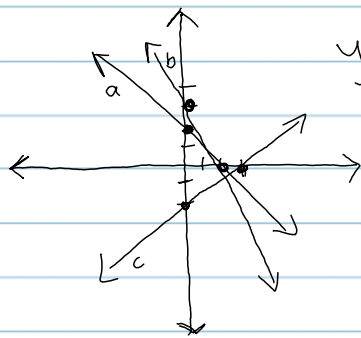
$y = 4x + 2$

$y = -2x + 1$

Parallel & Perpendicular Lines



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



line a:
 $y = -x + 2$

line b:
 $y = -\frac{3}{2}x + 3$

line c:
 $y = \frac{2}{3}x - 2$

parallel lines: have the same slope

line b & line c are perpendicular because the slopes are opposite reciprocals