1

$m = \frac{y_2 - y_1}{x_2 - x_1}$ $m = \frac{20-10}{13-2}$ $P_1(2,10)\ P_2(13,20)$

$0.9090 = \tan\theta$

$m = \frac{10}{11}$ $m = 0.9090$ $\tan^{-1}(0.9090) = \tan^{-1}\tan\theta$

$42.2708 = \theta$

$P_1(-1,-1)\ P_2(12,-8)$

$m = \frac{\Delta y}{\Delta x}$ $m = \frac{-8-(-1)}{12-(-1)}$ $0.5384 = \tan\theta$

$m = \frac{-7}{13}$ $m = 0.5384$ $\tan^{-1}(.5384) = \tan^{-1}\tan\theta$

$28.2980 = \theta$

2

$y = mx + b$ $y = -13x - 7$ $m = -13$ $b = -7$

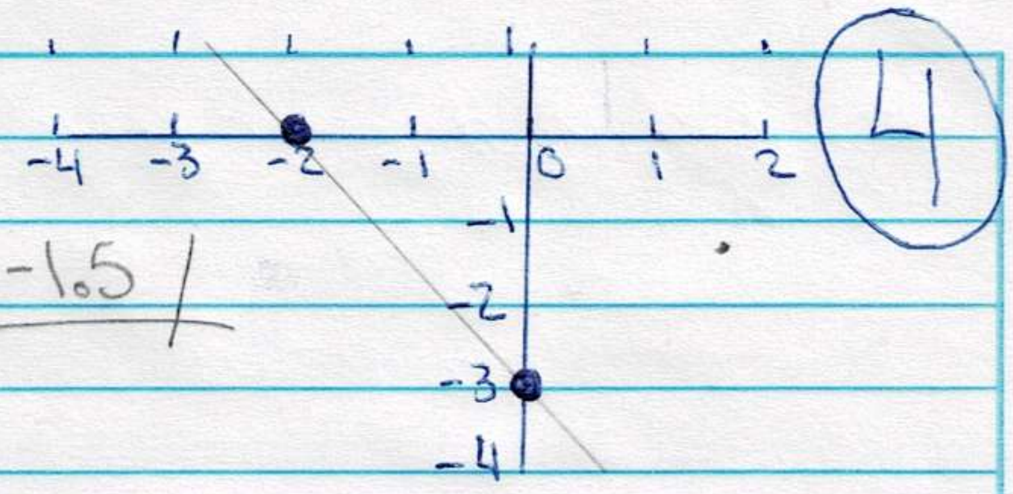
$y = mx + b$ $y = 2x + 9$ $m = 2$ $b = 9$

3

$y = mx + b$ $m = 12$ $b = -15$ a) $y = 12x - 15$

$y = mx + b$ $m = -2$ $b = 5$ b) $y = -2x + 5$

$P_1(-2,0)$ $P_2(0,-3)$



4

$m = \frac{\Delta y}{\Delta x}$ $m = -3/-2$ $m = -1.5$

$y - y_1 = m(x - x_1)$

$y - 0 = -3/-2(x+2)$ $y/2 = -3x - 6$

$y = -6x - 12$

$y - 0 = -1.5(x+2)$ $y = -1.5x - 3$

5

$y = mx + b$ $y = 9x + 15$ inicio = 15
cada Km = 9

$y = mx + b$ $y = 15x + 650$ Primer día = 650
cada día = 15