precalc pg 213.pdf

Page 1 of 6

Page 213 (variables are positive Rintegers)

$$M = \frac{(y_2 - y_1)}{(x_2 - x_1)} = \frac{-b - 0}{0 - (-a)} \Rightarrow \frac{-b}{9} \Rightarrow \text{slope is neg, line goes down.}$$

$$m = \frac{(\gamma_2 - \gamma_1)}{(x_2 - x_1)} = \frac{(q+c) - c}{q - (q-b)} = \frac{q+cc}{q-q+b} = \frac{q}{b} \Rightarrow \text{ line goes up.}$$

$$\begin{array}{c} x_1 \ y_1 \\ \hline & x_2 \ y_2 \\ \hline & & \\ \hline &$$

(88) a) points given \Rightarrow (20,51.7) and (30,62.6) $M = \frac{12-11}{x_2-x_1} = \frac{62.6-51.7}{30-20} = \frac{10.9}{10} = 1.09 \quad (\% of never married)$ using point (20,51.7)... $(y_2-y_1)=m(x_2-x_1)$ (y-S1.7)=1.09(x-20)y-51.7=1.09x-21.8 +51.7 +51.7 y=1.09x+29.9 for function notation let t=years after 1980 and P=percent of never married males. -> P(E) = 1-09E +29.9

(88) con't

c) P(E) = 1-09E+29.9 eval for 2015

P(35)=1.09(35)+29.9

2015-1980 =35 50 t=35

P(35)= 68.05

so the percentage a unmarried males will be 68.05% in 2015.

precalc pg 213.pdf

