Day 11 - Sept 18th

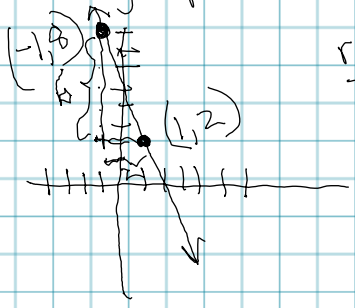
Find slope from 2 points a graph, + equation

given 2 points (1,2) AND (5,4) Find slope

$\frac{2}{4} \rightarrow = \frac{\text{rise}}{\text{run}} = \frac{2}{4} = \frac{1}{2}$

$m = \frac{y_1 - y_2}{x_1 - x_2} = \frac{2-4}{1-5} = \frac{-2}{-4} = \frac{2}{4} = \frac{1}{2}$

given a graph find slope



$\frac{\text{rise}}{\text{run}} = \frac{6}{2} = -3$

$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2-8}{1-1} = \frac{-6}{2} = \boxed{-3}$

given an Equation find slope

$y = \left(-\frac{3}{7}\right)x + 5$ $\quad -\frac{3}{7}$