

PRE-AP ALGEBRA 2

- 1) Find the equation of the line which has slope $\frac{1}{4}$ and which passes through the point (8,3).

$$y = mx + b$$

$$y = \frac{1}{4}x + b$$

$$3 = \frac{1}{4}(8) + b$$

$$3 = 2 + b$$

$$b = 1$$

$$y = \frac{1}{4}x + 1$$

1.A.1 CLASSWORK

- 2) Find the equation of the line which passes through the two points (-1, -5) and (2,4).

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - (-5)}{2 - (-1)} = \frac{9}{3} = 3$$

$$y = 3x + b, \quad 4 = 3(2) + b, \quad 4 = 6 + b,$$

$$b = -2, \quad y = 3x - 2$$