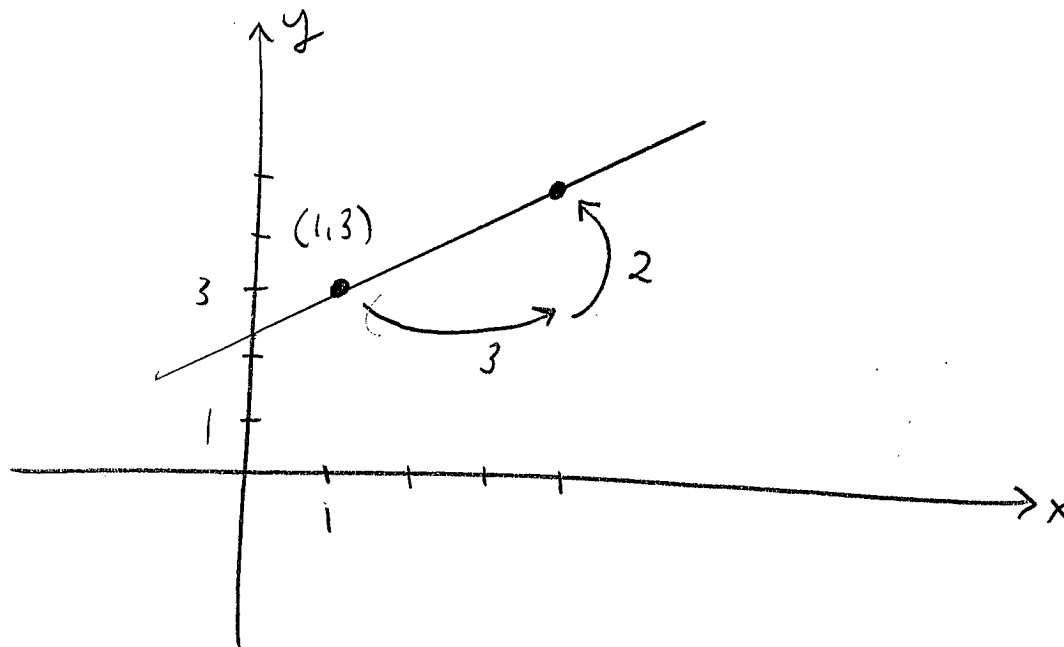


- (1) [5] Graph the line through the point $(1, 3)$ having slope $m = \frac{2}{3}$.



- (2) [5] Determine an equation of the line which has x-intercept $(3, 0)$ and y-intercept $(0, -2)$.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-2 - 0}{0 - 3} = \frac{2}{3}$$

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

$$y - 0 = \frac{2}{3}(x - 3)$$

$$\boxed{y = \frac{2}{3}x - 2}$$

(3) [5] Determine the point of intersection of the pair of lines:

$$L: 4x - 2y = 8$$

$$M: 6x + 3y = 0$$

$$L: 2y = 4x - 8$$

$$y = 2x - 4$$

$$M: 6x + 3(2x - 4) = 0$$

$$6x + 6x - 12 = 0$$

$$12x = 12$$

$$x = 1$$

$$\therefore y = 2x - 4$$

$$= 2(1) - 4$$

$$= -2.$$

$$\therefore (x, y) = (1, -2).$$