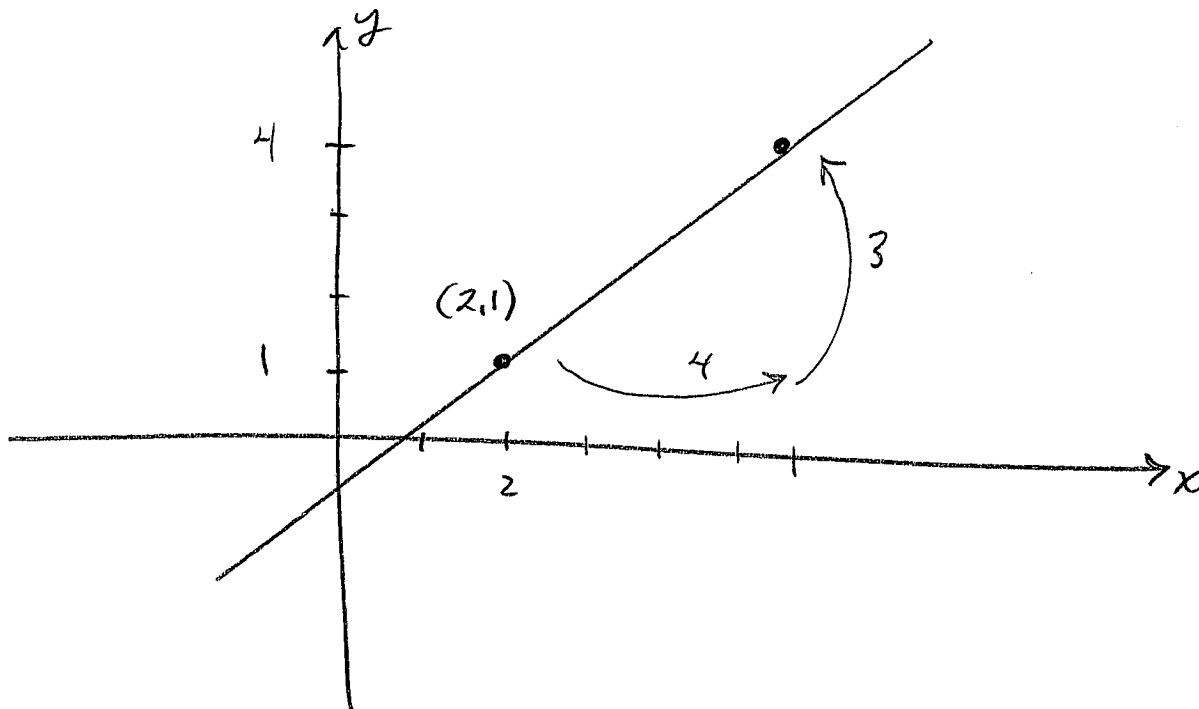


- (1) [5] Graph the line through the point $(2, 1)$ having slope $m = \frac{3}{4}$.



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

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

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

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

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

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

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

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

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

$$x = 4 + 2y$$

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

$$12 + 6y + 6y = 0$$

$$12y = -12$$

$$y = -1$$

$$\therefore x = 4 + 2(-1)$$

$$= 4 - 2$$

$$= 2$$

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