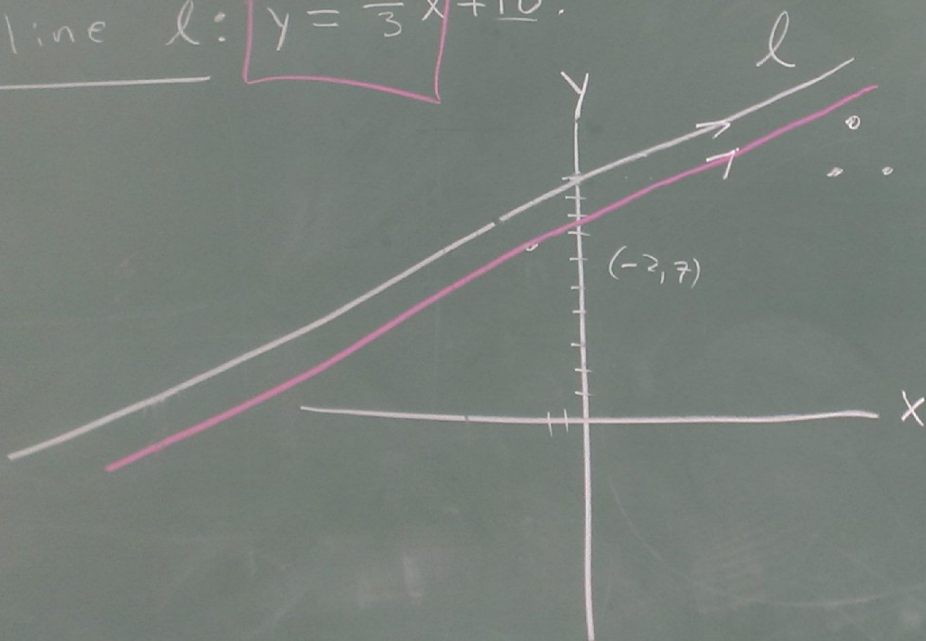


Parallel lines p34.

Q. Find the equation of the line through Point $(-2, 7)$ and Parallel to the line $l: y = \frac{1}{3}x + 10$.

Soln



$$l_1 : 3x + 5y = 12$$

$$l_2 : 6x + 10y = 12$$

$l_1 \parallel l_2$?

$$m_1 = \frac{-3}{5}$$

$$m_2 = \frac{-6}{10}$$

$m_1 = m_2$ so $l_1 \parallel l_2$

ctd

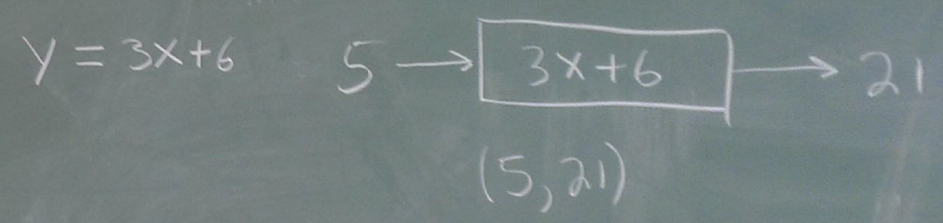
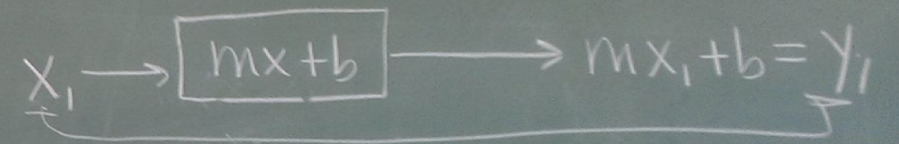
Show that in $y = mx + b$, m, b const.
 m must be the slope

Soln.

$$y_1 = mx_1 + b$$

$$y_2 = mx_2 + b$$

$$y = mx + b$$



$$\therefore y - 9 = \frac{3}{4}(x - 1)$$