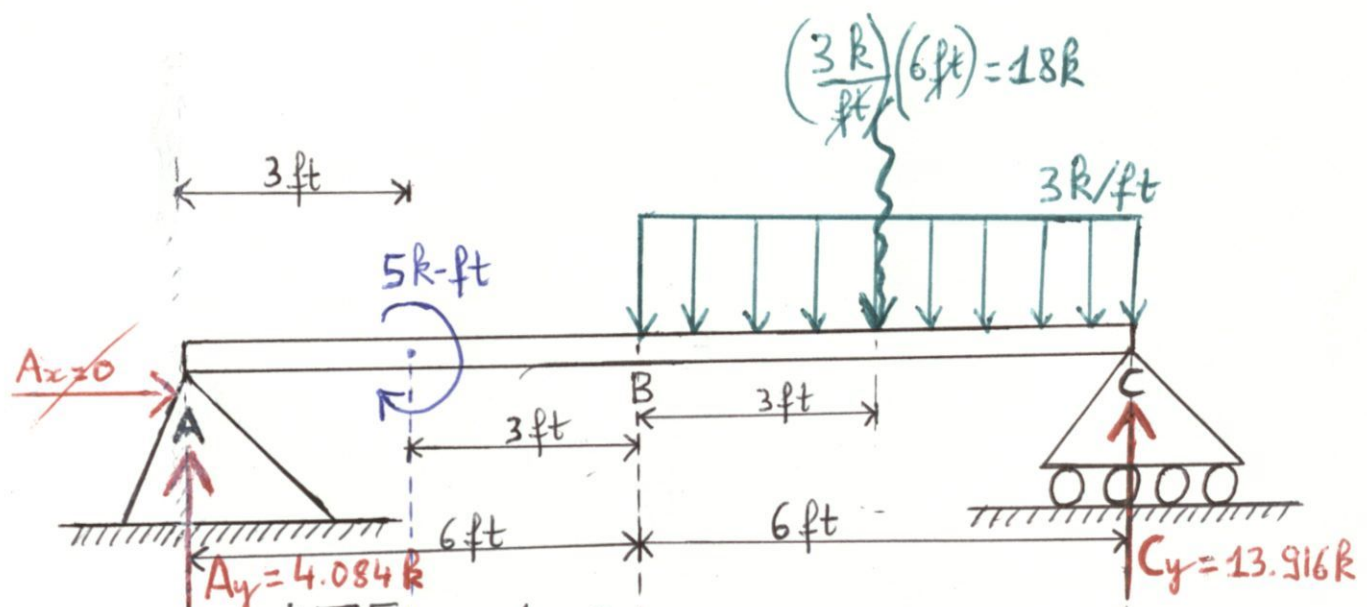
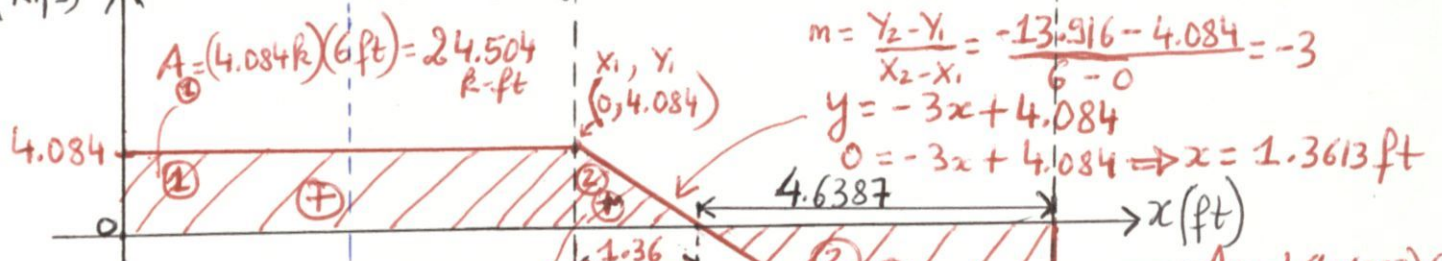


Date: 1st November 2018



$$\begin{aligned} \rightarrow \sum F_x = 0; \quad A_x = 0 \\ \uparrow \sum M_A = 0; \quad (-5R\text{-ft}) + (-18R)(9\text{ft}) + (C_y)(12\text{ft}) = 0 \\ C_y = 13.916R \\ \uparrow \sum F_y = 0; \quad A_y + C_y = 18R; \quad A_y = 18R - 13.9R = 4.084R \end{aligned}$$

V (Kips)



$$A_1 = (4.084R)(6\text{ft}) = 24.504 R\text{-ft}$$

$$A_2 = \frac{1}{2}(1.36)(4.084) = 2.779 R\text{-ft}$$

$$A_3 = \frac{1}{2}(4.6387)(-13.916) = -32.276 R\text{-ft}$$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-13.916 - 4.084}{6 - 0} = -3$$

$$y = -3x + 4.084$$

$$0 = -3x + 4.084 \Rightarrow x = 1.3613 \text{ ft}$$

M (Kips-ft)

