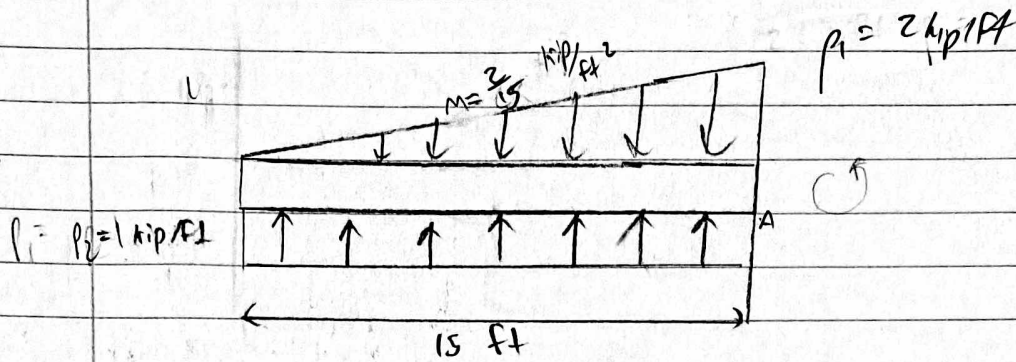


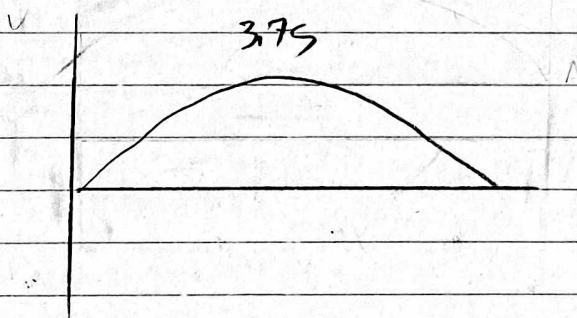
Soluzioni: 21-5-7.3- MK-08



$$\sum F_y = (15 \text{ ft})(1 \text{ kip/ft}) - (2 \text{ kip/ft}^2)(15 \text{ ft})\left(\frac{1}{2}\right) - A_y = 0 \Rightarrow A_y = 0$$

$$\sum M = -(15 \text{ ft})(1 \text{ kip/ft})\left(\frac{15 \text{ ft}}{2}\right) + (2 \text{ kip/ft}^2)(15 \text{ ft})\left(\frac{1}{2}\right)\left(\frac{1}{3}\right)(15 \text{ ft}) + M_A$$

$$M_A = -37.5 \text{ G. NN/m}$$

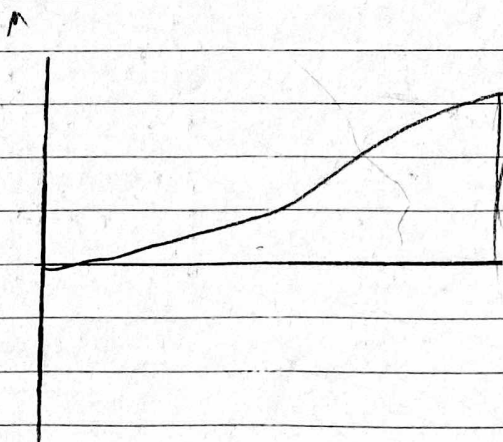


$$V_A = 0$$

$$V_B = 0 + \int \frac{2x}{15} + 1$$

$$V_B = 2x - \frac{x^2}{15}$$

$$M_{\max} = 2 - \frac{2x}{15} = 0 \Rightarrow x = 7.5 \text{ m}$$



$$M_B = \int 2x - \frac{x^2}{15}$$

$$M_B = \int \frac{x^2}{2} - \frac{x^3}{45}$$

$$M_x = \frac{7.5^2}{2} - \frac{7.5^3}{45}$$

$$M_x = 16.75 \text{ NNm}$$