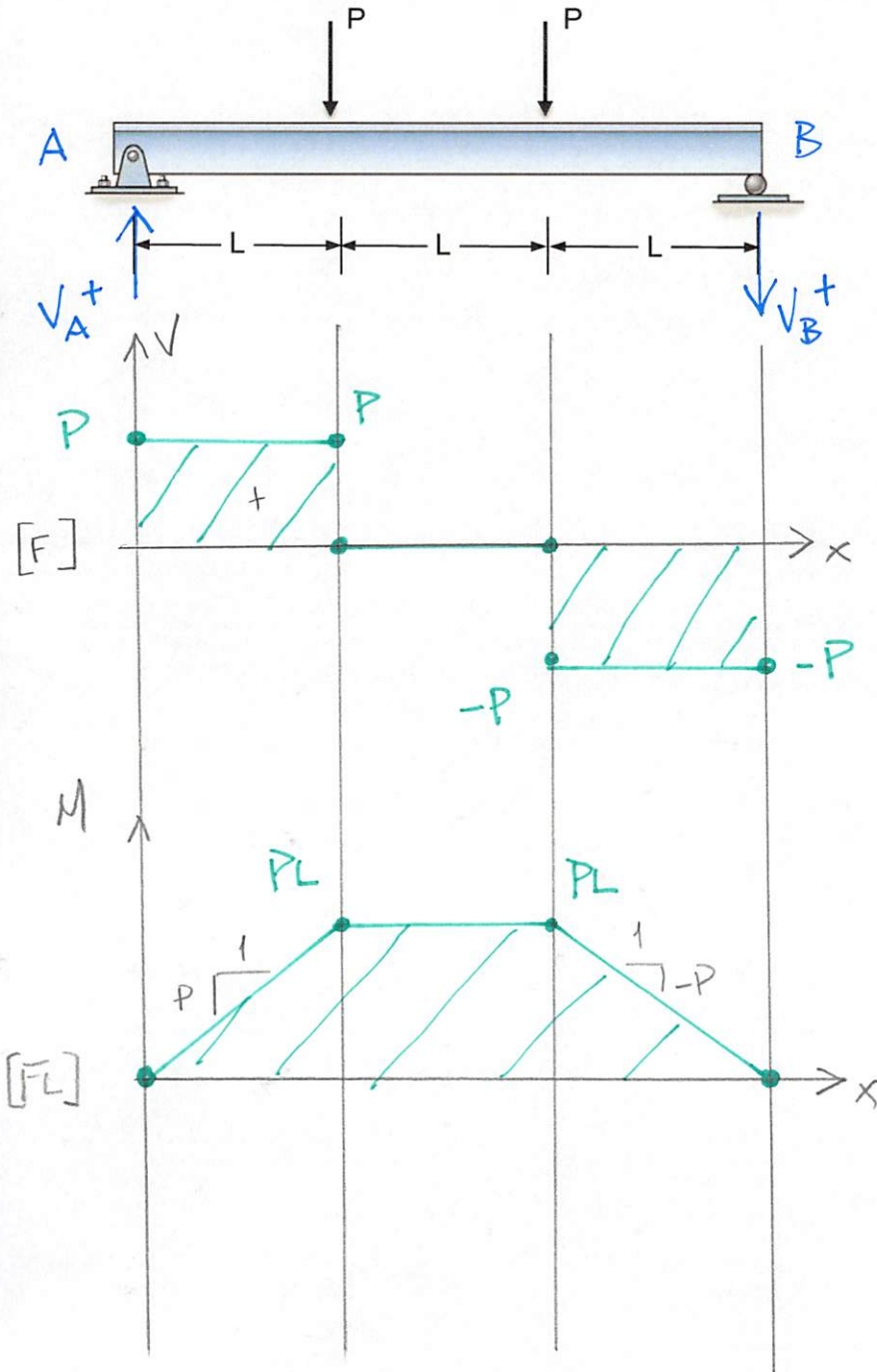


Example 4c-0 – Construct the shear force and bending moment diagrams.



$$\begin{aligned} \sum M_B = 0 &= P(L + 2L) - V_A(3L) \quad \underline{V_A = P} \\ \sum F_y = 0 &= V_A - V_B - P - P \quad \underline{V_B = -P} \end{aligned}$$

$$\Delta V = \int w dx \quad \frac{dV}{dx} = w$$

$$\Delta M = \int V dx \quad \frac{dM}{dx} = V$$

$$\underline{\underline{M_{MAX} = PL \quad L \leq x \leq 2L}}$$