

Consider the loading on the beam shown below.

- Determine the reactions at supports A and B .
- Sketch the shear force $V(x)$ and bending moment $M(x)$ distribution on the beam using the axes below. Provide details on your calculations..

Use the following in your calculations: $L = 9\text{ ft}$, $p_0 = 10\text{ kips/ft}$, $P_C = 40\text{ kips}$ and $M_D = 90\text{ ft}\cdot\text{kips}$.

