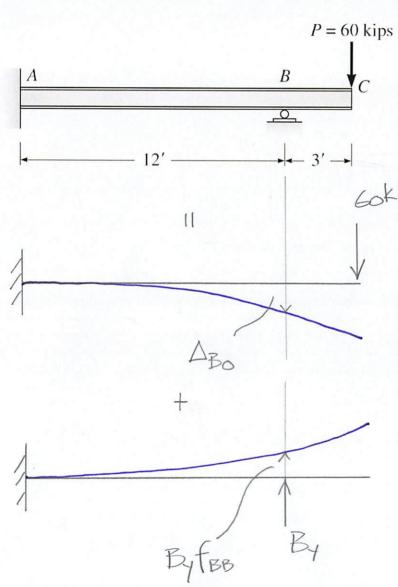
Problem 9a-4 - Compute the reactions and draw the shear and moment curves for the following beam.



$$\Delta_{Bo} + B_{y} f_{BB} = 0$$

$$\Delta_{Eo} = \frac{P}{6EI} \left[x^{3} - 3Lx^{2} \right] L = 15' \\
x = 12'$$

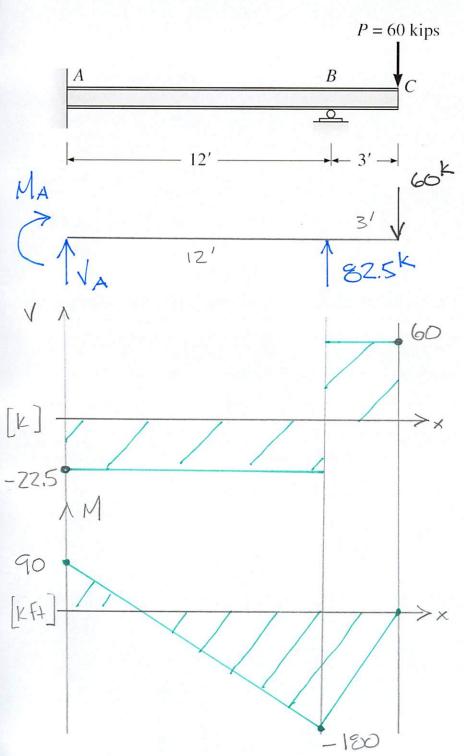
$$= \frac{-60k}{6EI} \left[(12')^{3} - 3(15')(12')^{2} \right]$$

$$= -\frac{47,520 kft^{3}}{EI}$$

$$= \frac{(12')^{3}}{3EI} = \frac{576ft^{3}}{EI}$$

$$\Rightarrow -\frac{47,520 kft^{3}}{EI} + B_{y} \left[\frac{576ft^{3}}{EI} \right]$$

Problem 9a-4 - Compute the reactions and draw the shear and moment curves for the following beam.



$$\pm 2M_A = 0 = -60^k(15') + 82.5^k(12') - M_A$$

 $= 400 \text{ kft}$

$$+12F_{4}=0=V_{A}+82.5k-60^{k}$$

$$V_{A}=-22.5k$$

$$\Delta V = \int M dx \frac{dv}{dv} = W$$

$$\Delta M = \int \sqrt{dx} = \sqrt{dx}$$