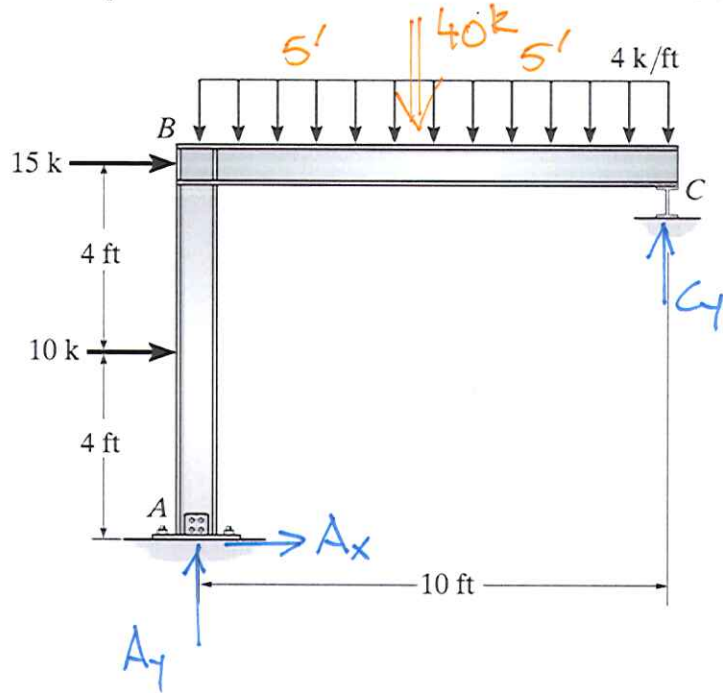


Example 4d-2: Draw the shear and moment diagrams for the following frame:

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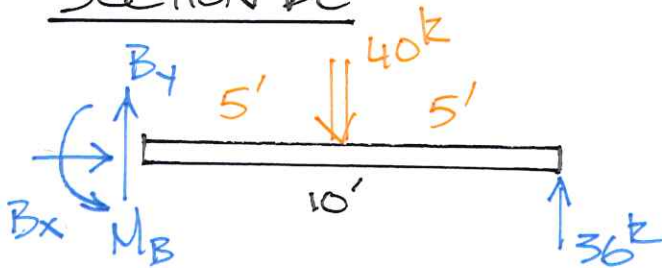
$$\sum M_A = 0 = -15k(4') - 10k(8') - 40k(5') + C_y(10')$$

$$C_y = 36k$$

$$\sum F_y = 0 = A_y + C_y - 40k \quad A_y = 4k$$

$$\sum F_x = 0 = A_x + 10k + 15k \quad A_x = -25k$$

SECTION BC

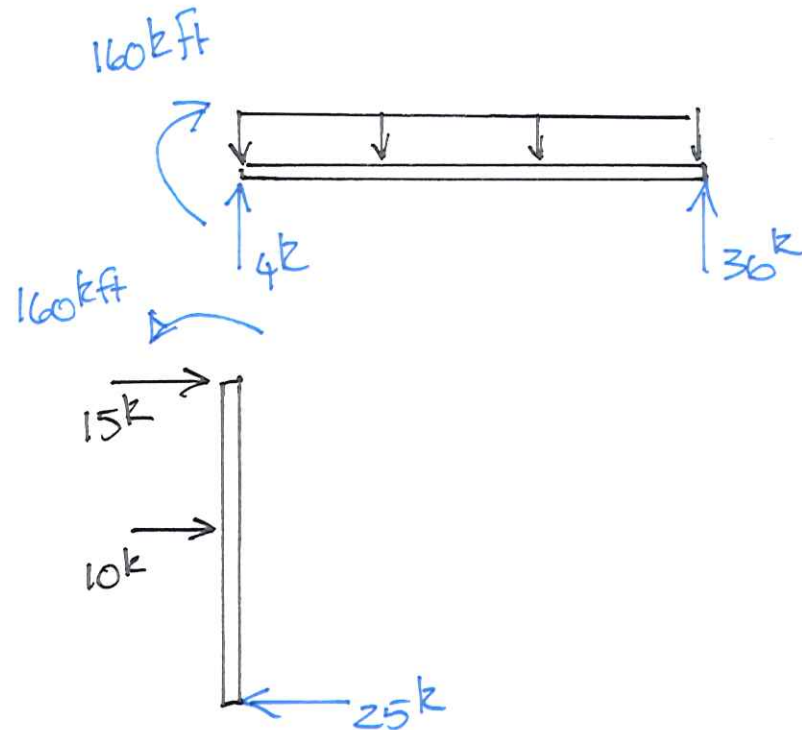


$$\sum M_B = 0 = M_B - 40k(5') + 36k(10')$$

$$M_B = -160kft$$

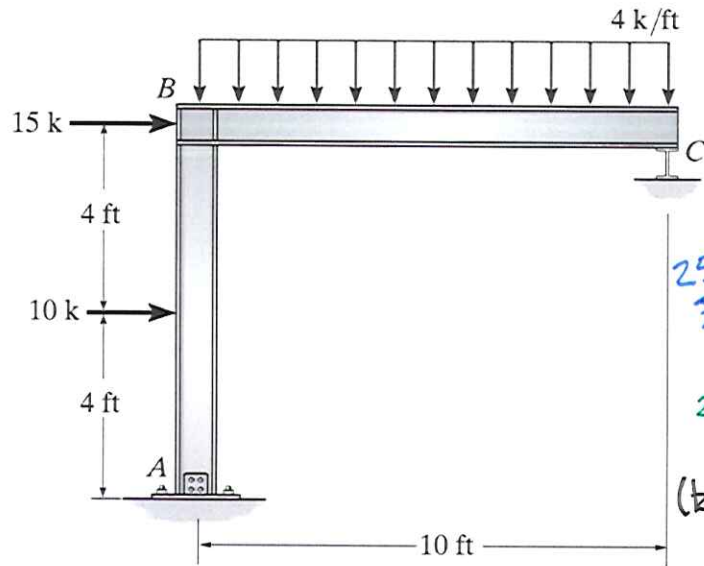
$$\sum F_y = 0 = B_y - 40k + 36k \quad B_y = 4k$$

$$\sum F_x = 0 = B_x$$



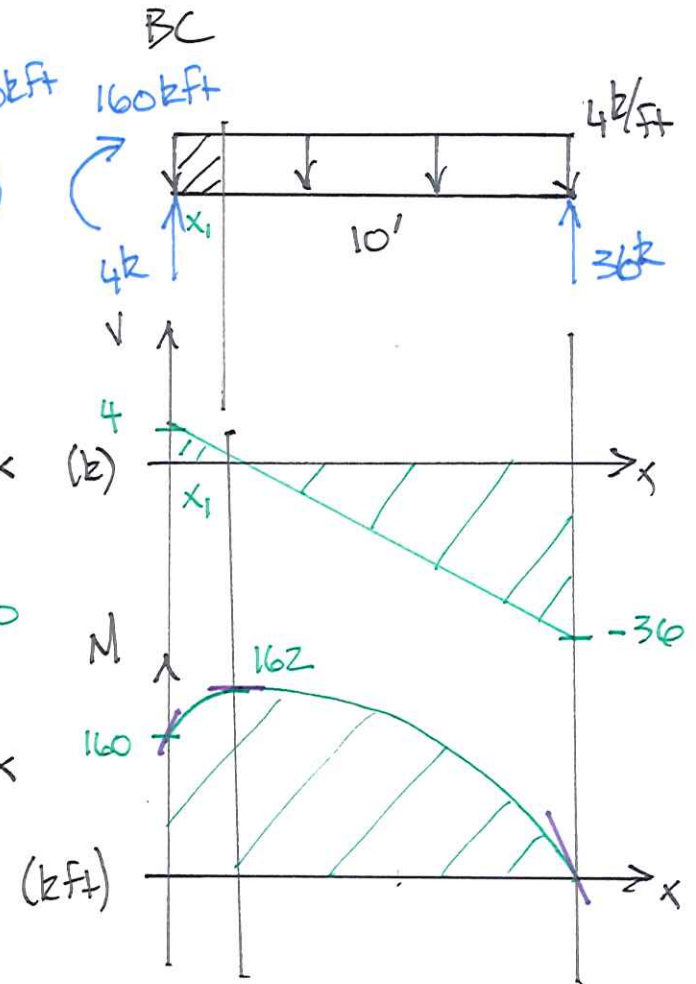
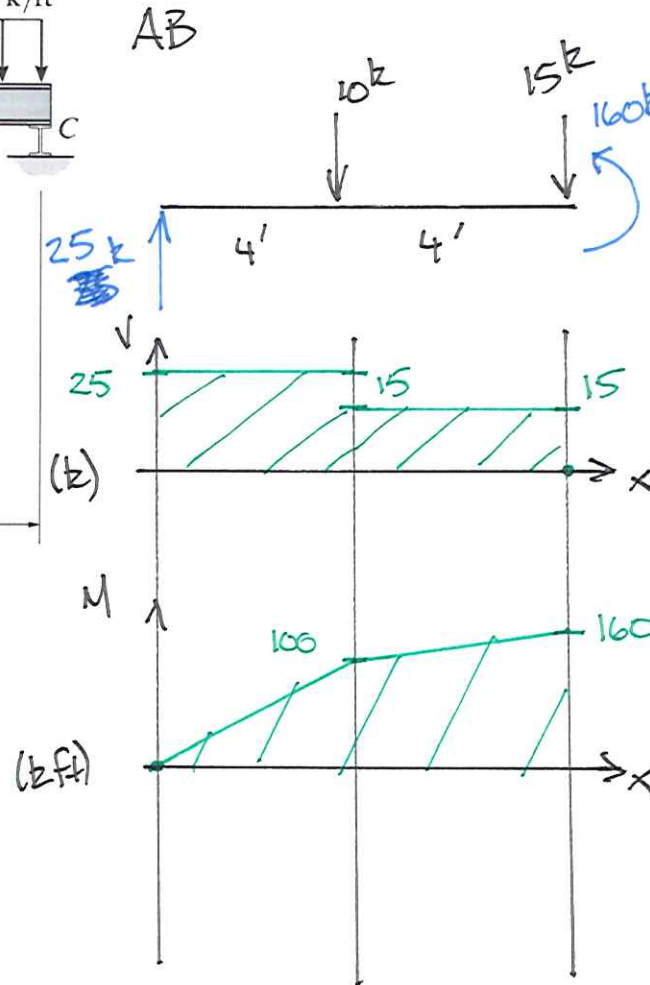
Example 4d-2: Draw the shear and moment diagrams for the following frame:

2/2



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

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



$$\Delta V = -4k$$

$$\int w dx = -4x_1 \quad \underline{x_1 = 1}$$