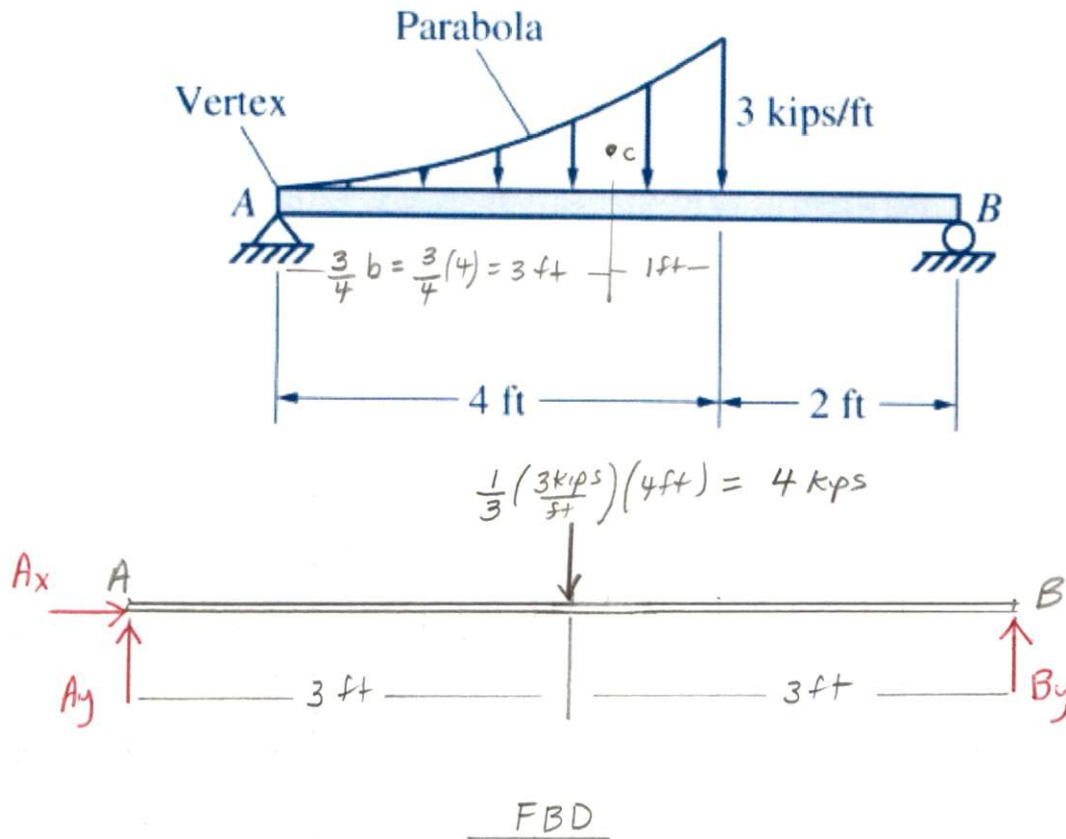


7-25 to 7-28 Refer to Figs. P7-25 to P7-28. Determine the reactions at the supports of the beams for the loading shown in each figure.

7-26.

Solution.



ccw + M ↺
cw - M ↻

Equilibrium Equations

$$[\sum F_x = 0] \quad A_x = 0$$

$$[\sum M_A = 0] \quad -4\text{ kips}(3\text{ ft}) + B_y(6\text{ ft}) = 0$$

$$B_y = \frac{12\text{ kip}\cdot\text{ft}}{6\text{ ft}} = \underline{\underline{2\text{ kips}} \uparrow}$$

$$[\sum F_y = 0] \quad A_y - 4\text{ kips} + B_y = 0$$

$$A_y = 4\text{ kips} - 2\text{ kips} = \underline{\underline{2\text{ kips}} \uparrow}$$