



$$R_A = \frac{w}{l} (a + \frac{l^2}{2l}) \rightarrow R_A = \frac{w}{l} (a + \frac{l}{2})$$

$$R_B = \frac{w}{l} (l^2 - \frac{l^2}{2}) + w \cdot a = \frac{w}{l} (l^2 - \frac{l^2}{2}) + w \cdot a = \frac{w}{l} (\frac{l^2}{2} + a \cdot l)$$

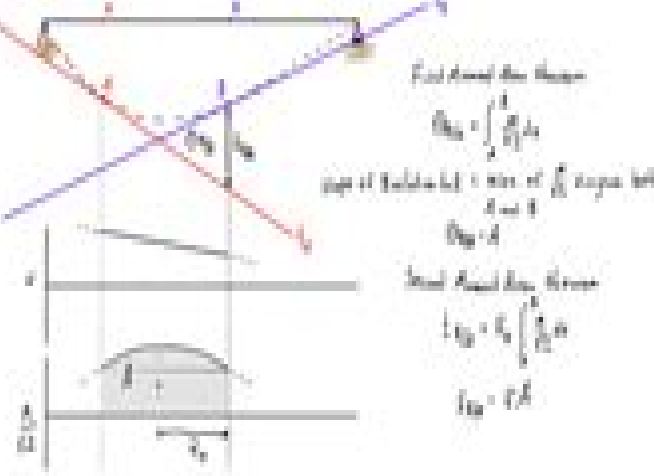
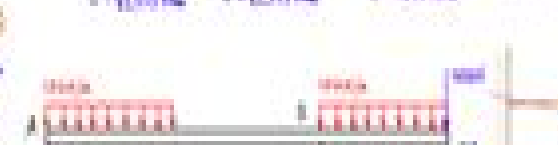
$$R_B = \frac{w}{l} (l^2 - \frac{l^2}{2}) + w \cdot a = \frac{w}{l} (\frac{l^2}{2} + a \cdot l)$$

$$R_B = \frac{w}{l} (l^2 - \frac{l^2}{2}) + w \cdot a = \frac{w}{l} (\frac{l^2}{2} + a \cdot l)$$

$$R_B = \frac{w}{l} (l^2 - \frac{l^2}{2}) + w \cdot a = \frac{w}{l} (\frac{l^2}{2} + a \cdot l)$$



$$R_{A1} = \frac{w l_1^2}{2} \quad R_{A2} = \frac{P l_2}{l} \quad R_{B1} = \frac{w l_1}{2} \quad R_{B2} = \frac{P}{l}$$



Find slope and deflection

$$\theta_B = \int \frac{1}{EI} dx$$

slope of beam at B = value of θ at B

Deflection

Find slope and deflection

$$y_B = \int \theta dx$$

$$y_B = \int \theta dx$$



Civil Engineering Structural Analysis And Design

M Walker



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