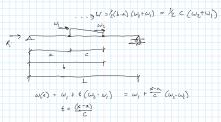
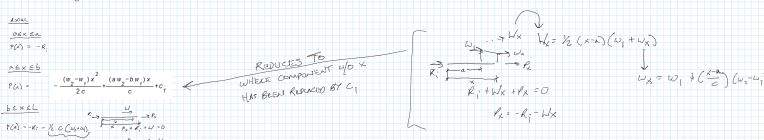
#### Linear Axial Load

Tuesday, January 24, 2023 3:14 PM





### DEFORMATION

# a5x 6 b

$$U(x) = \left[ -\frac{(w_2 - w_1)x^3}{6c} + \frac{(aw_2 - bw_1)x^2}{2c} + c_1x + c_3 \right]$$

#### b = x < L

$$v(x) = \left[ \left( -\mu, -\frac{1}{2} C (\omega_z + \omega_i) \right) \times + c_q \right] \frac{1}{2A}$$

# # unknown's = 4

$$c_{j} = -\frac{a^{2}w_{2} - 2abw_{1} + a^{2}w_{1} + 2R_{j}b - 2R_{j}a}{2(b-a)}$$

$$c_3 = \frac{a^2 (a w_2 - 3 b w_1 + 2 a w_1)}{6 (b - a)}$$

$$C_{4} = \frac{(2b^{2} - ab - a^{2})w_{2} + (b^{2} + ab - 2a^{2})w_{1}}{6}$$