

(1) FI 
$$\frac{d^4\omega}{dx^4} = QH(x-a_6) \rightarrow 3pABhenne$$
 rporusa

a) EI 
$$\frac{d^3\omega}{dx^3} = q \frac{(x-q_6)^2}{2} H(x-q_6) + P H(x-q_6) - R_2 H(x-q_7) - R_4 H(x-q_6) - R_5 H(x-q_5) + Q_0$$

The perequision are the sum of the su

(3) ET 
$$\frac{d^2\omega}{d\kappa^2} = Q \frac{(x-a_6)^2 H(x-a_6) + P(x-a_5)H(x-a_5) - R_2(x-a_2)H(x-a_2) - R_4(x-a_6)H(x-a_6) - R_5(x-a_5)H(x-a_5) + Q_0 x + M_0 + MH(x-a_5) - Mouseum$$

(4) 
$$EI\frac{\delta\omega}{\delta x} = e^{\frac{(x-a_s)^3}{6}H(x-a_s)} + P\frac{(x-a_s)^2}{2} - P_2\frac{(x-a_z)^2}{2}H(x-a_z) - P_4\frac{(x-a_4)^2}{2}H(x-a_4) - P_5\frac{(x-a_5)^2}{2}H(x-a_5) + P_6\frac{x^2}{2} + M_6x + M(x-a_3)H(x-a_5) + P_6$$

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(b) EI 
$$\omega(x) = q \frac{(x-\alpha_0)^{\frac{1}{2}}H(x-\alpha_0) + P(x-\alpha_0)^{\frac{1}{2}}H(x-\alpha_0) - R_2 \frac{(x-\alpha_0)^{\frac{1}{2}}H(x-\alpha_0) - R_4 \frac{(x-\alpha_0)^{\frac{1}{2}}H(x-\alpha_0)$$

$$\frac{d^{2}\omega}{dx^{2}}(0) = \frac{d^{2}\omega}{dx^{2}}(l) = 0$$

$$\frac{d^{3}\omega}{dx^{2}}(0) = \frac{d^{3}\omega}{dx^{3}}(l) = 0$$

$$\omega(Q_{2}) = \omega(Q_{1}) = 0$$

$$\kappa \omega(Q_{5}) = R_{5}$$

$$\omega(\mathbf{Q}_z) = \omega(\mathbf{Q}_{\mathsf{H}}) = 0$$

$$\kappa \omega(a_5) = R_5$$

CHAMPUTHAN APPMA

P. S. (1), (2) => 
$$a_0 = M_0 = 0$$
 $\begin{cases} f_2 \\ g_4 \\ g_5 \end{cases} = \begin{cases} g_1 \\ g_2 \end{cases}$