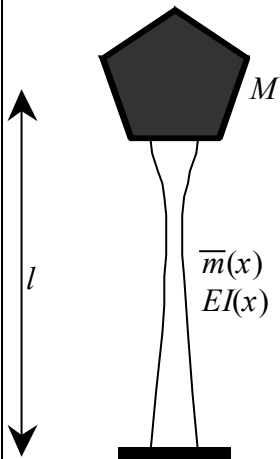
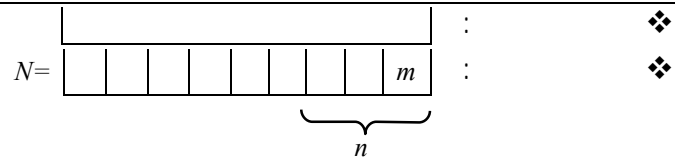


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.  $N$  + =  $a$  ❖  
 .  $n$  + =  $b$  ❖  
 .  $m$  + =  $c$  ❖



$$\begin{cases}
 l = 10a \text{ [m]} , & M = 250b \text{ [ton]} , & \xi = 5\% \\
 \bar{m}(x) = 100 \left( 1 - 0.9 \frac{x^4}{l^4} \right) \text{ [ton/m]} \\
 EI(x) = 1.5 \times 10^{10} \left( 1 - 0.8 \frac{x^8}{l^8} \right) \text{ [ton} \cdot \text{m}^2]
 \end{cases}$$

$$\begin{aligned}
 \varphi(x) &= \frac{3}{2} \left( \frac{x}{l} \right)^2 - \frac{1}{2} \left( \frac{x}{l} \right)^3 \quad ( ) & \varphi(x) &= 1 - \cos \frac{\pi x}{2l} \quad ( ) & \varphi(x) &= \left( \frac{x}{l} \right)^2 \quad ( ) \\
 \varphi(x) &= \frac{5}{3} \left( \frac{x}{l} \right)^2 - \frac{2}{3} \left( \frac{x}{l} \right)^3 \quad ( ) & \varphi(x) &= 2 \left( \frac{x}{l} \right)^2 - \frac{4}{3} \left( \frac{x}{l} \right)^3 + \frac{1}{3} \left( \frac{x}{l} \right)^4 \quad ( )
 \end{aligned}$$

$$PGA = 0.3g \quad PGV = 25 \text{ cm/s} \quad PGD = 4 \text{ cm}$$

$$0.25g$$

SAP 2000

$$\left. \begin{aligned}
 c = 1 & - \\
 c = 2 & -
 \end{aligned} \right\}$$

A4

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