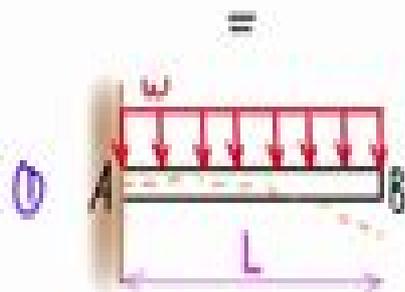


$l = 2m$   
 $P = 20kN$   
 $w = 10kN/m$

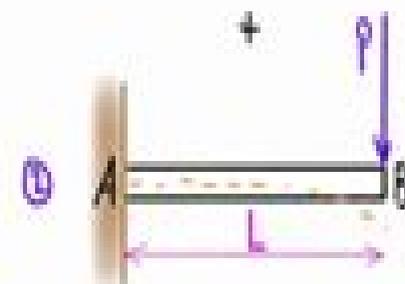
Slope at B

Elastic Curve Equation



$$\theta_B = \frac{-wL^3}{6EI}$$

$$y = \frac{-w}{24EI} (x^4 - 4Lx^3 + 6L^2x^2)$$



$$\theta_B = \frac{-PL^2}{2EI}$$

$$y = \frac{P}{6EI} (x^3 - 3Lx^2)$$

$$\textcircled{1} \theta_{B1} = \frac{-wL^3}{6EI} = \frac{-10 \times 10^3 \text{ N/m} (2\text{m})^3}{6 \cdot 100 \times 10^6 \text{ Nm}^2} = \frac{-10 \times 10^3 \text{ N/m} \cdot 8\text{m}^3}{6 \cdot 100 \times 10^6 \text{ Nm}^2} = -0.000133 \text{ rad} \searrow$$

$$\textcircled{2} \theta_{B2} = \frac{-PL^2}{2EI} = \frac{-20 \times 10^3 \text{ N} (2\text{m})^2}{2 \cdot 100 \times 10^6 \text{ Nm}^2} = \frac{-20 \times 10^3 \text{ N} \cdot 4\text{m}^2}{2 \cdot 100 \times 10^6 \text{ Nm}^2} = -0.0004 \text{ rad} \searrow$$

$$\theta_B = \theta_{B1} + \theta_{B2}$$

$$= -0.000533 \text{ rad}$$

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**VM Jensen**



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