

Dodatna naloga 3

1) Izračunajte vertikalni poves na sredini nosilca.

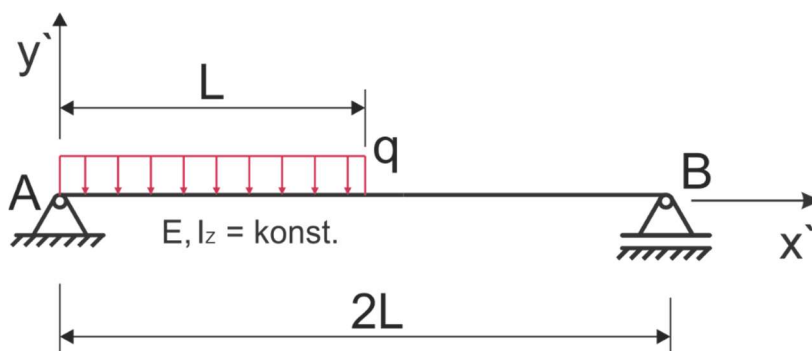
$$q = 6 \text{ kN/m}$$

$$L = 1 \text{ m}$$

$$E = 200000 \text{ MPa}$$

$$I_z = 5 \cdot 10^5 \text{ mm}^4$$

$$y(x' = L) = ?$$

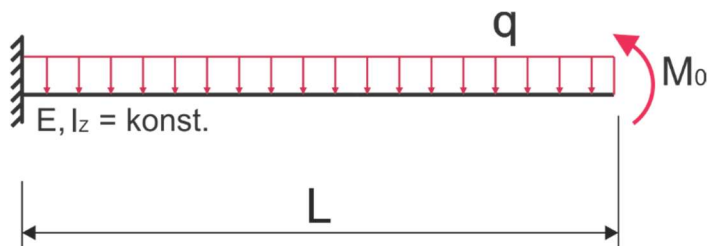


Rezultat:

$$y(x' = L) = \frac{5qL^4}{48EI_z} = 6,25 \text{ mm}$$

2) Določite moment M_0 tako, da bo:

- a) poves na koncu nosilca enak nič
- b) poves na sredini nosilca enak nič



q, L, E, I_z – vzemite kot znane vrednosti

$$M_0 = ?$$

Rezultati:

$$\text{a) } M_0 = \frac{qL^2}{4}$$

$$\text{b) } M_0 = \frac{17qL^2}{48}$$