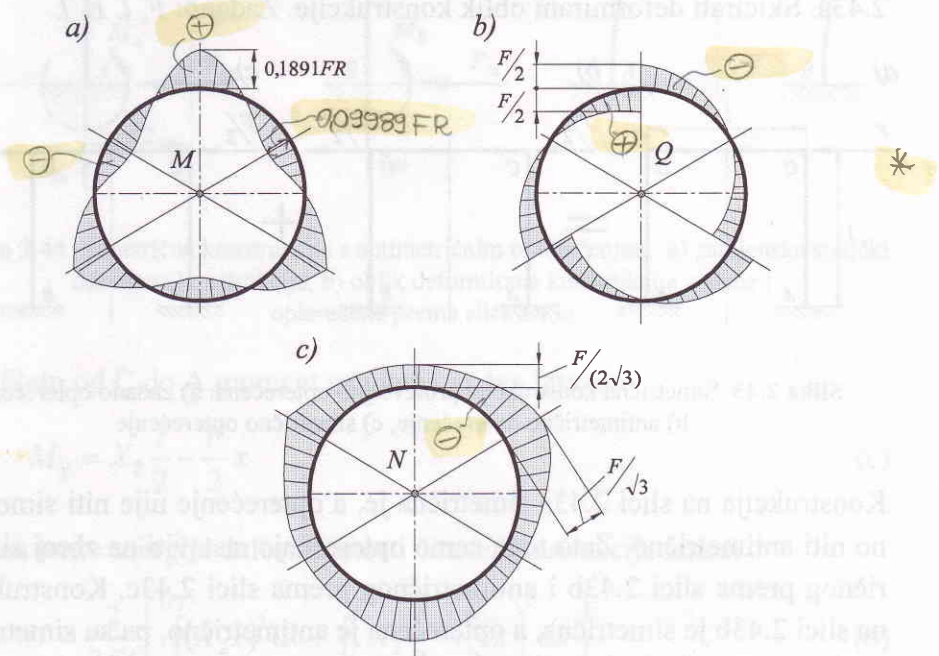


$$\frac{\partial U}{\partial X} = \frac{6}{EI} \int_0^{\pi/3} [X - N_B R(1 - \cos\varphi)] R d\varphi = 0. \quad (d)$$

Kad provedemo integriranje i uzmemo u obzir (b), dobit ćemo

$$X = \left( \frac{1}{\sqrt{3}} - \frac{3}{2\pi} \right) FR = 0,09989 FR. \quad (e)$$



Slika 2.42 Dijagrami komponenta unutarnjih sila: a) momenta savijanja, b) poprečne sile, c) normalne sile

Sada izrazi za komponente unutarnjih sila glase

$$N = -N_B \cos\varphi = -\frac{F}{\sqrt{3}} \cos\varphi, \quad (f)$$

$$Q = N_B \sin\varphi = \frac{F}{\sqrt{3}} \sin\varphi. \quad (g)$$

$$M = X - N_B R(1 - \cos\varphi), \quad (h)$$