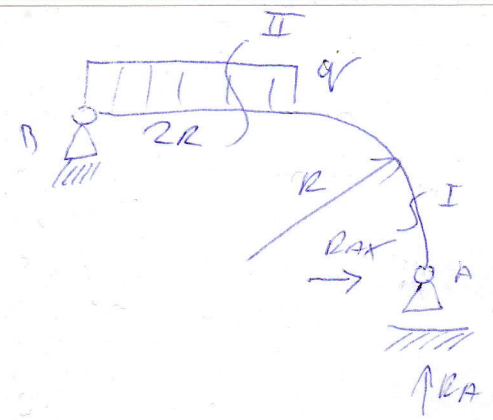


$E = 100\,GPa$

$\sigma_z = 770\,MPa$

$\nu = 0{,}3$

$D = 40\,mm$

$R = 400\,mm$

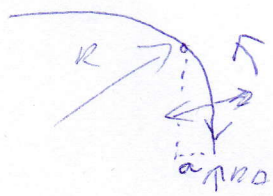
$q = 10\,N/mm$

$R_{Ax} = 0$

$i = 3 - 2 - 1 = 0$

$M_B = R_A \cdot 3R - q \cdot 2R \cdot \frac{2R}{2} \quad R_A =$

I



$\varphi < 0, 90>$

$M_{O1} = R_A\, a + R_{Ax} \cdot b$

$a = R - R \cdot \cos\varphi \qquad b = R \cdot \sin\varphi$

$\frac{\partial M_{O1}}{\partial R_{Ax}}$

II

$M_{O2} = R_A \cdot (R + x) + R_{Ax} \cdot R - q \cdot \frac{x^2}{2}$

$\frac{\partial M_{O2}}{\partial R_{AA}}$

210000