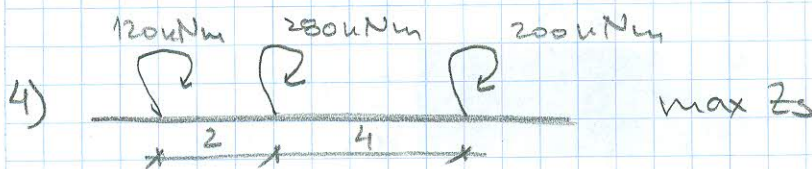


# EKSTREMNE VREDNOSTI

\* USLED ZADATIH POKRETNIH OPTEREĆENJA SRACUNATI  
NAVEDENE EKSTREMNE VREDNOSTI UTICAJA  $Z_s$ ,  
AKO JE UTICAJNA FUNKCIJA:

$$Z(s, u) = 12 \left( \frac{u}{l} \right)^2 \left[ 7 \left( \frac{u}{l} \right)^2 - 10 \left( \frac{u}{l} \right) + 3 \right] \quad 0 \leq u \leq l, \quad l = 20 \text{ m}$$



$$ax^2 + bx + c = 0$$

NEH - ISPRED O



$$u=0 \quad u=l$$

$$\xi = \frac{u}{l} \Rightarrow Z(s, \xi) = 12 \xi^2 (7 \xi^2 - 10 \xi + 3), \quad \xi \in [0, 1]$$

$$Z(s, \xi) = 0 \Rightarrow 7 \xi^2 - 10 \xi + 3 = 0$$

$$\xi_{1,2} = \frac{+10 \pm \sqrt{10^2 - 4 \cdot 7 \cdot 3}}{2 \cdot 7} = \frac{10 \pm 4}{14} \rightarrow \begin{matrix} 1 \\ \frac{3}{7} \end{matrix}$$

NULTE TAČKE  
(RAZDELNICA)

