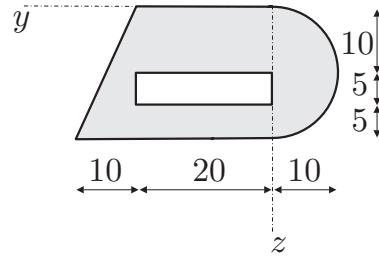


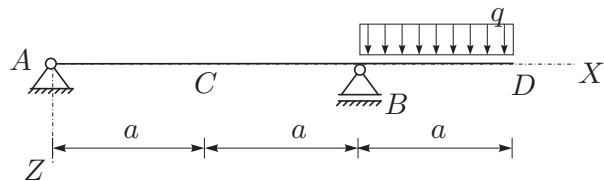
TRDNOST (OG-VSŠ) - 2. KOLOKVIJ (22. 12. 2011)

Pazljivo preberite besedilo vsake naloge!  
Pišite čitljivo! Uspešno reševanje!

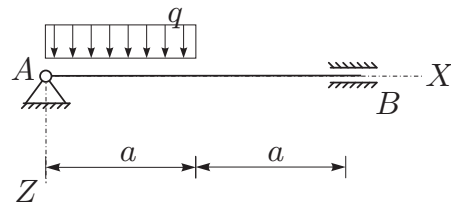
1. Izračunajte geometrijske karakteristike ( $A$ ,  $y_T$ ,  $z_T$ ,  $I_y$ ,  $I_z$ ,  $I_{yz}$ ,  $I_y^T$ ,  $I_z^T$ ,  $I_{yz}^T$ ) lika na sliki! (30%)  
Podatki so v centimetrih.



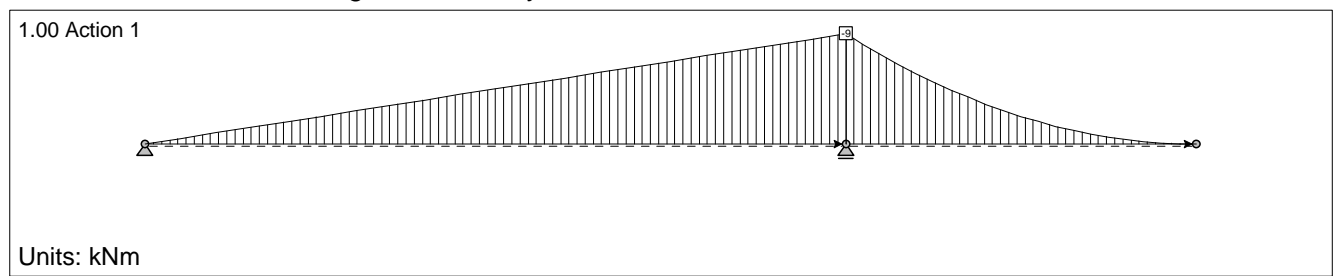
2. Za konstrukcijo na sliki izrazite upogibnico in iz vrednotite vertikalna pomika v točkah  $C$  in  $D$ ! (30%)  
Podatki:  $a = 3$  m,  $q = 2$  kN/m,  
 $E = 20000$  kN/cm<sup>2</sup>,  $A = 100$  cm<sup>2</sup>,  
 $I_y = 20000$  cm<sup>4</sup>.



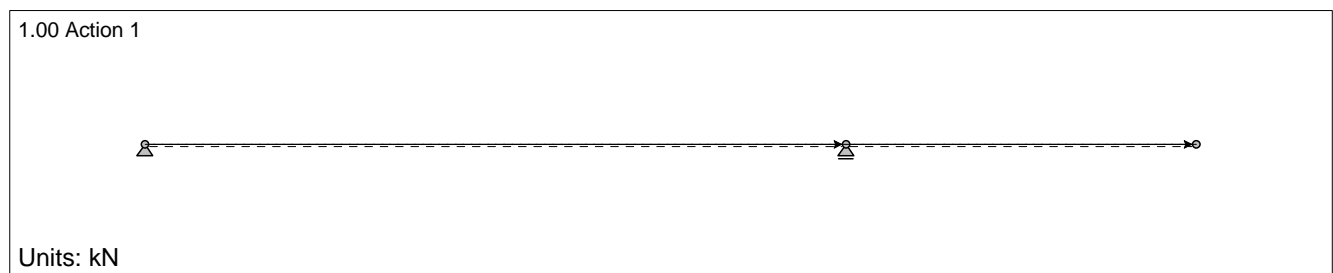
3. Za konstrukcijo na sliki izrazite upogibnico, notranje sile in določite zasuk v točki  $A$ ! Rezultate notranjih statičnih količin prikažite z diagrami! (40%)  
Podatki:  $a = 2$  m,  $q = 10$  kN/m,  
 $E = 3000$  kN/cm<sup>2</sup>,  
 $A = 1000$  cm<sup>2</sup>,  $I_y = 200000$  cm<sup>4</sup>.



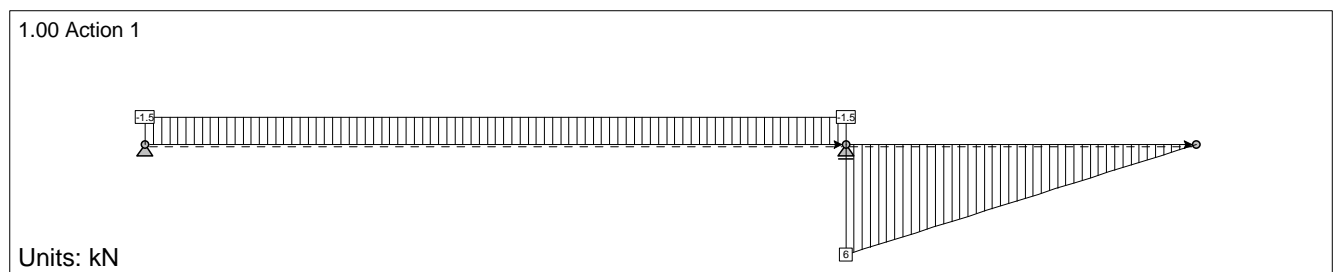
### LC1: Load case 2: Bending Moments My



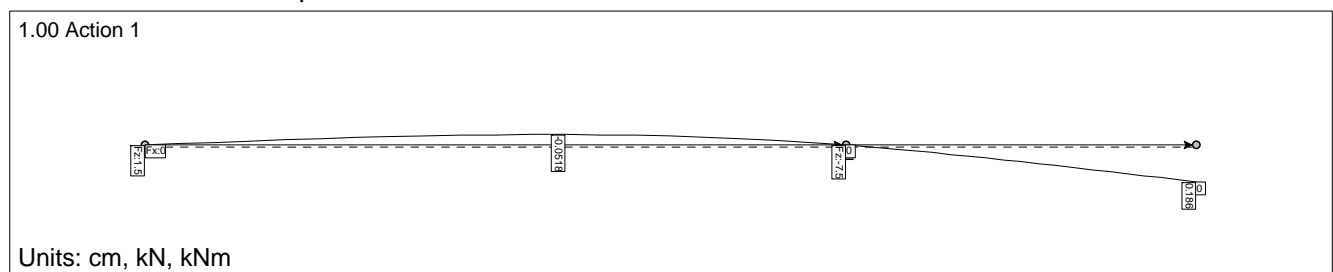
### LC1: Load case 2: Axial Forces Fx



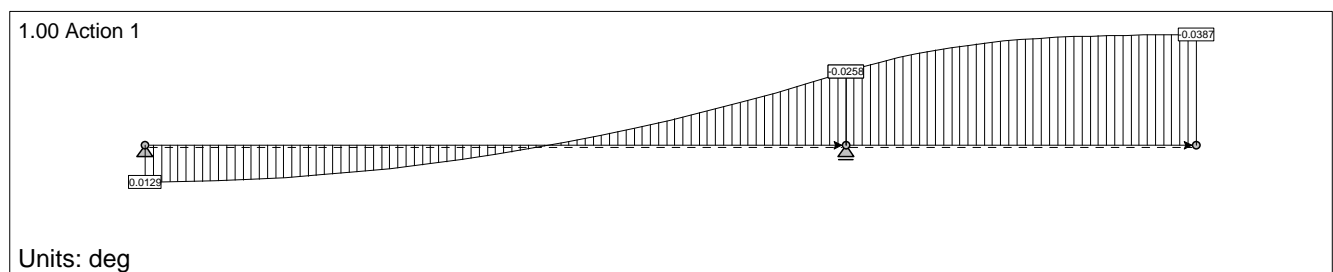
### LC1: Load case 2: Shear Forces Fz



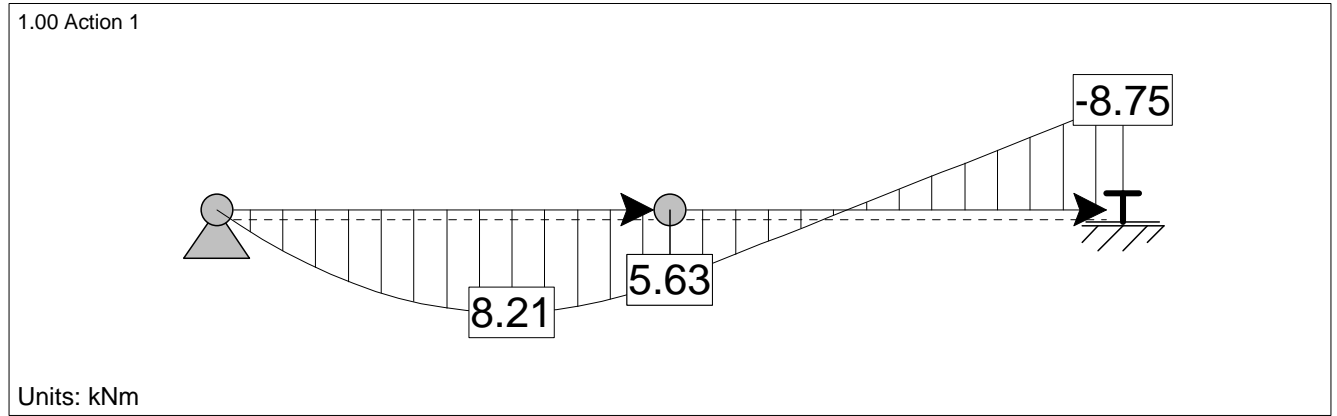
### LC1: Load case 2: Displacements and Reactions



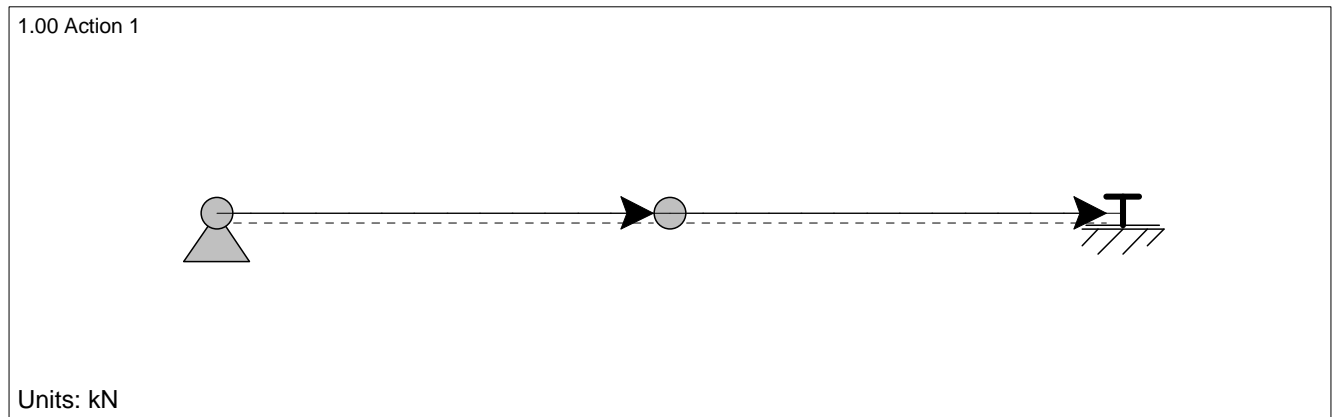
### LC1: Load case 2: Rotations



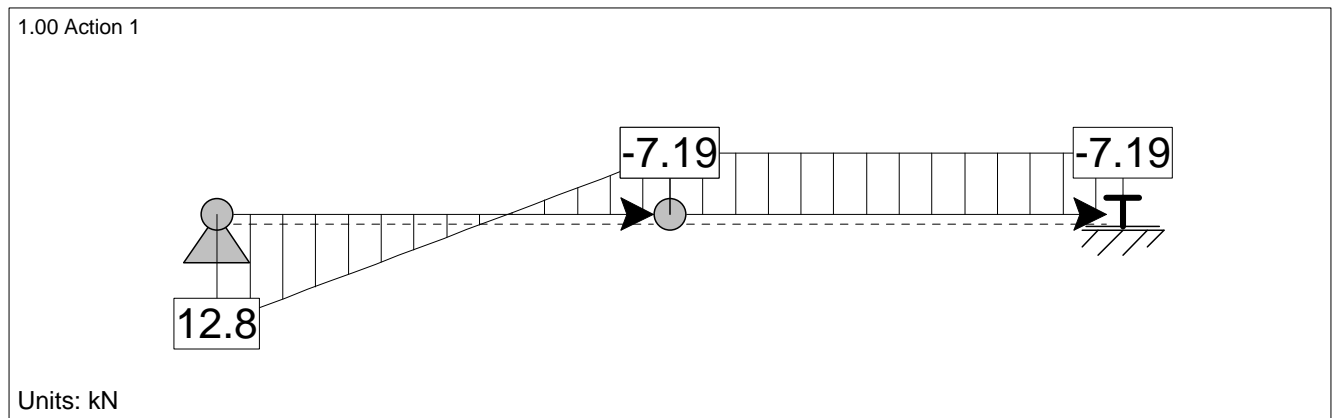
LC1: Load case 1: Bending Moments My



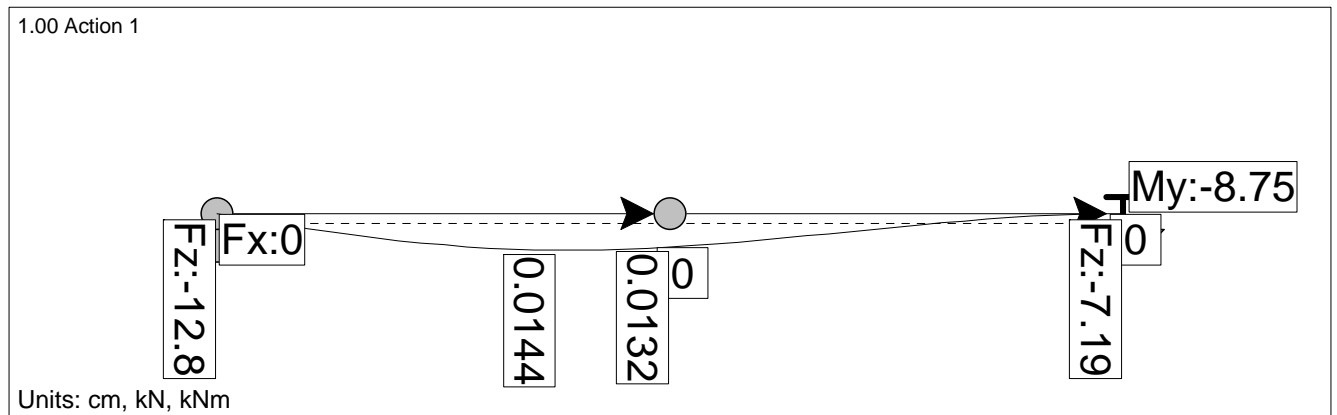
LC1: Load case 1: Axial Forces Fx



LC1: Load case 1: Shear Forces Fz



LC1: Load case 1: Displacements and Reactions



LC1: Load case 1: Rotations

