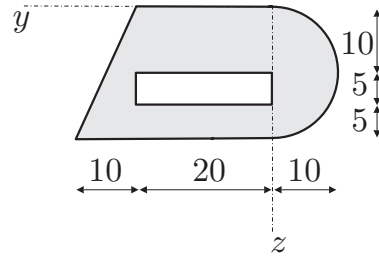


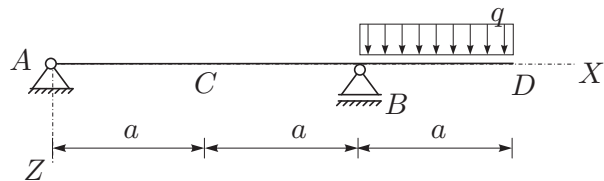
TRDNOST (OG-VSŠ) - 2. KOLOKVIJ (22. 12. 2011)

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

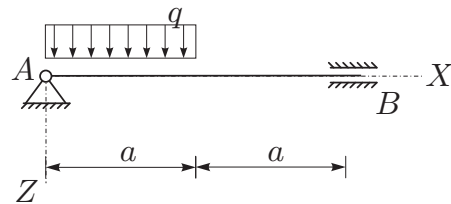
1. Izračunajte geometrijske karakteristike (A , y_T , z_T , I_y , I_z , I_{yz} , I_y^T , I_z^T , I_{yz}^T) lika na sliki! (30%)
Podatki so v centimetrih.



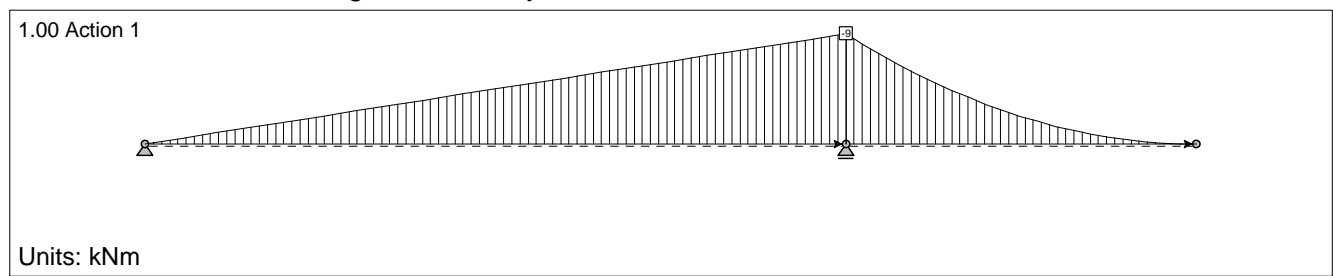
2. Za konstrukcijo na sliki izrazite upogibnico in iz vrednotite vertikalna pomika v točkah C in D ! (30%)
Podatki: $a = 3$ m, $q = 2$ kN/m,
 $E = 20000$ kN/cm², $A = 100$ cm²,
 $I_y = 20000$ cm⁴.



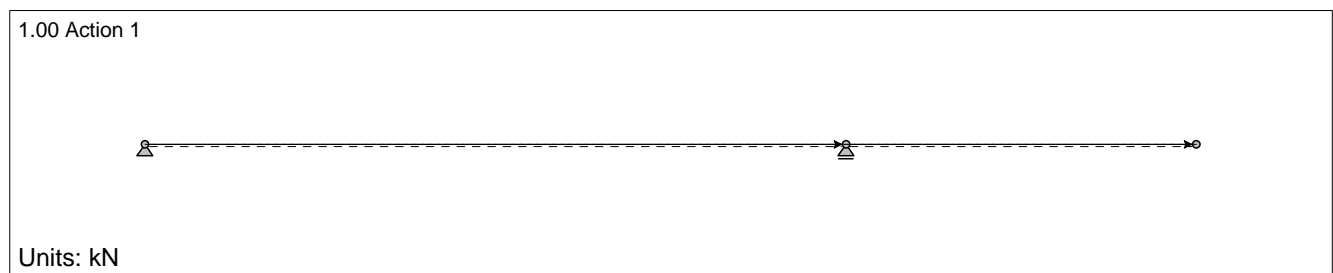
3. Za konstrukcijo na sliki izrazite upogibnico, notranje sile in določite zasuk v točki A ! Rezultate notranjih statičnih količin prikažite z diagrami! (40%)
Podatki: $a = 2$ m, $q = 10$ kN/m,
 $E = 3000$ kN/cm²,
 $A = 1000$ cm², $I_y = 200000$ cm⁴.



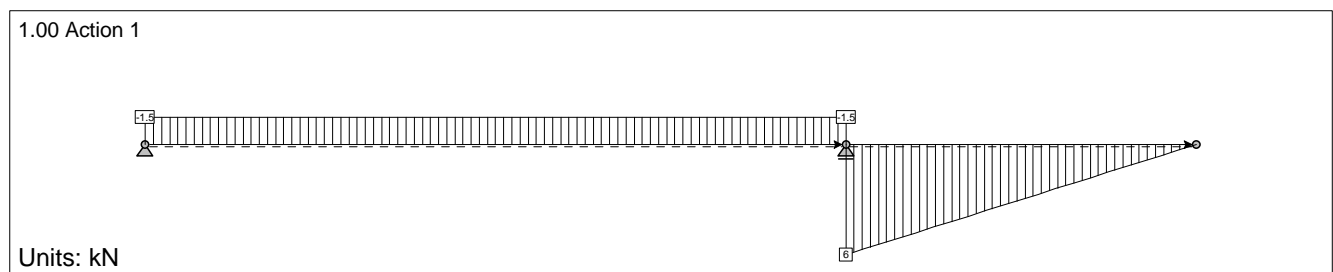
LC1: Load case 2: Bending Moments My



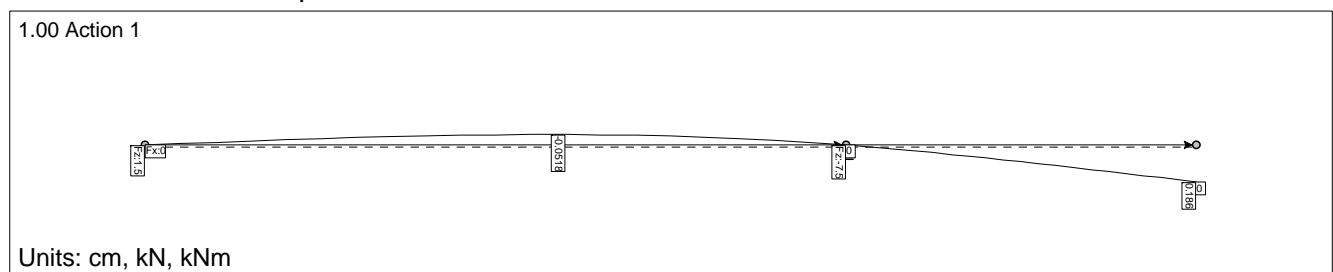
LC1: Load case 2: Axial Forces Fx



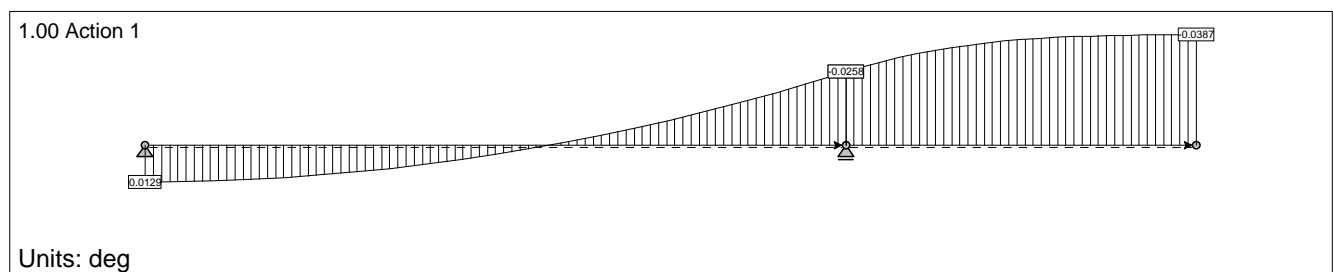
LC1: Load case 2: Shear Forces Fz



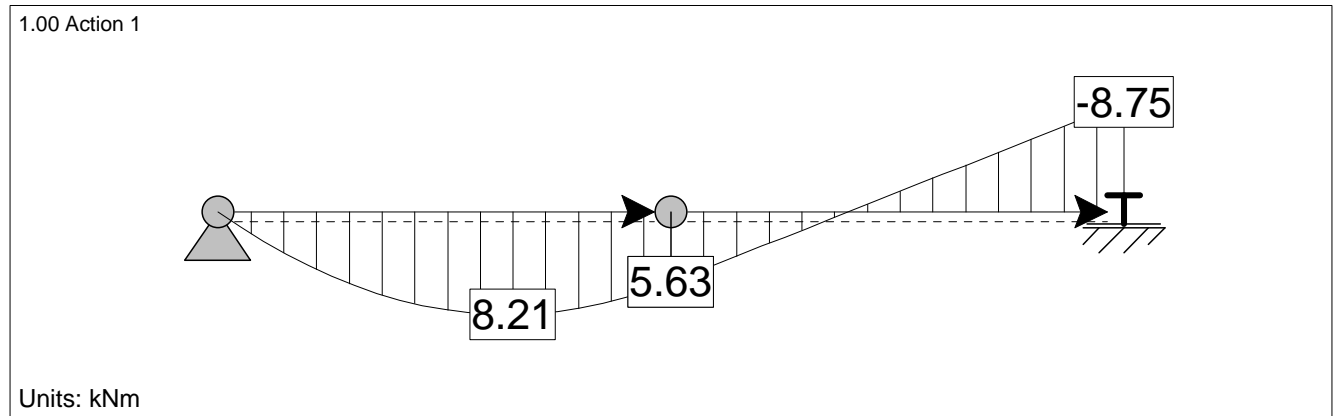
LC1: Load case 2: Displacements and Reactions



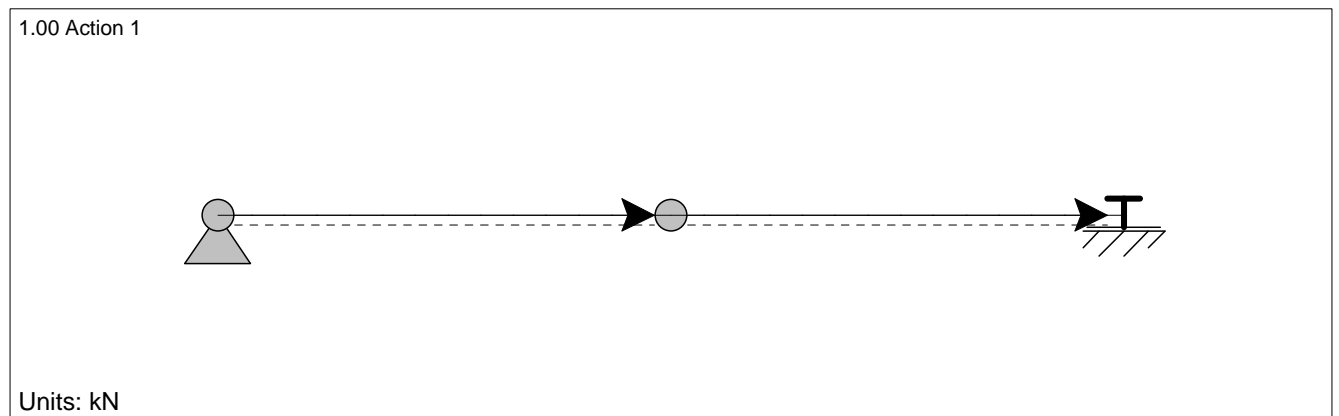
LC1: Load case 2: Rotations



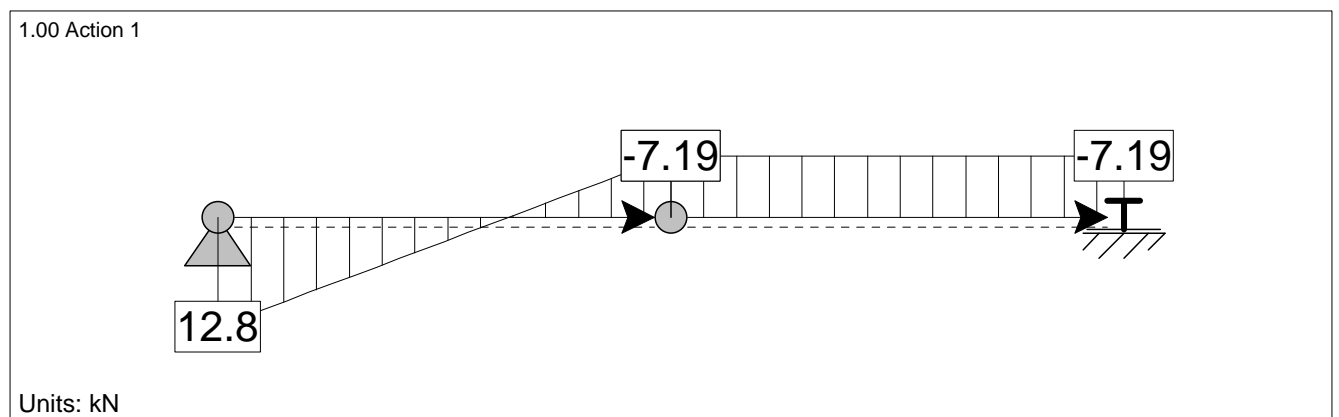
LC1: Load case 1: Bending Moments My



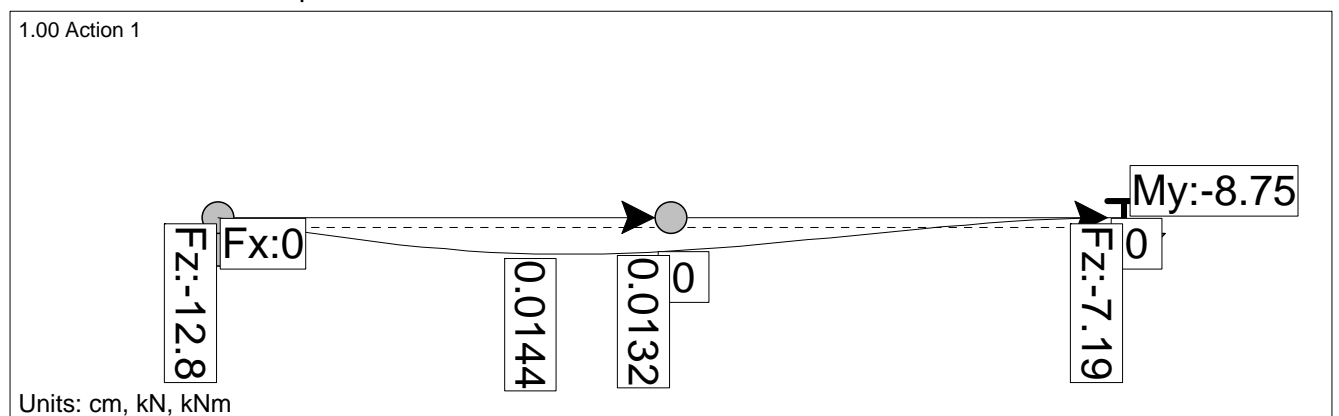
LC1: Load case 1: Axial Forces Fx



LC1: Load case 1: Shear Forces Fz



LC1: Load case 1: Displacements and Reactions



LC1: Load case 1: Rotations

