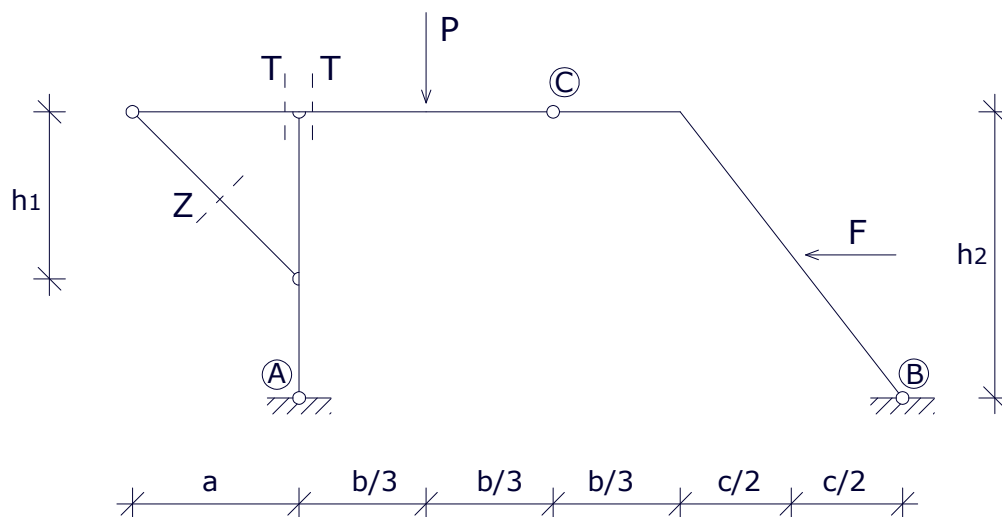


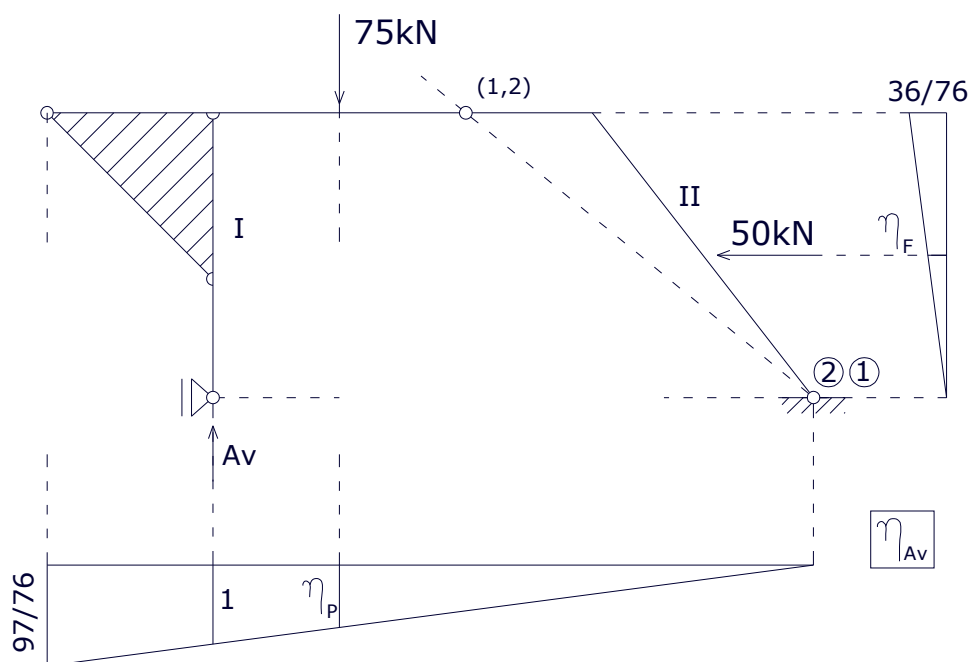
# I) UTJECAJNE LINIJE

Nacrtati utjecajne linije za sve reakcije i sile u presjecima.  
Pomoću utjecajnih linija odrediti iznose reakcija i sile u presjecima za sile  $P=75\text{kN}$ ,  $F=50\text{kN}$ .



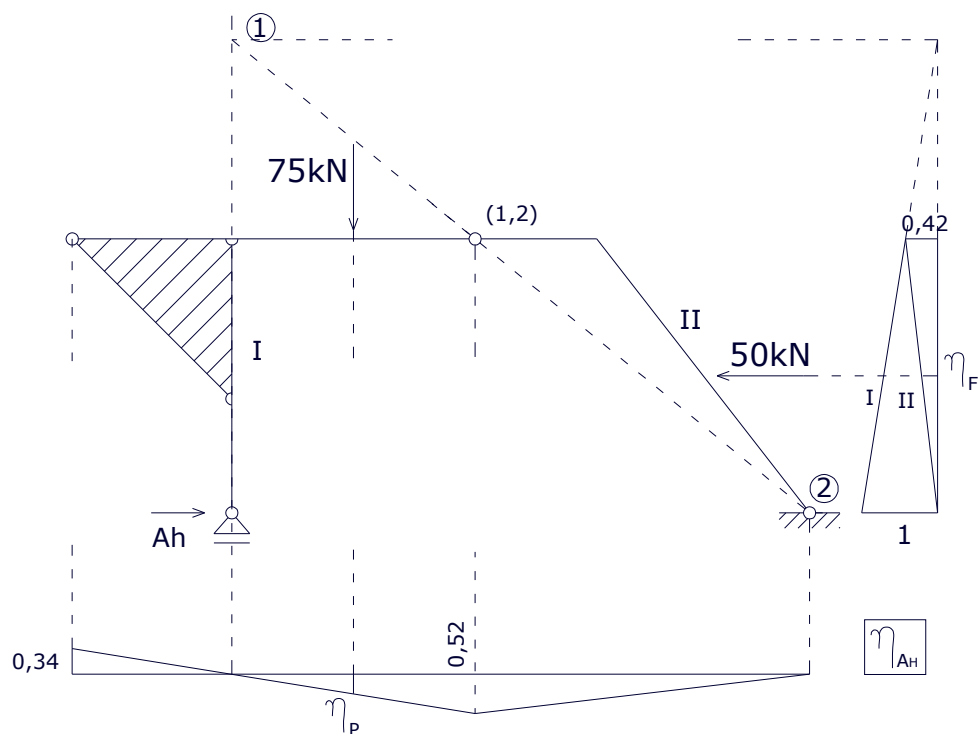
Student	UL	a (m)	b (m)	c (m)	$h_1$ (m)	$h_2$ (m)
Vedran Slunjski	1	2,1	4,8	2,8	2,1	3,6

## REAKCIJA A<sup>V</sup>



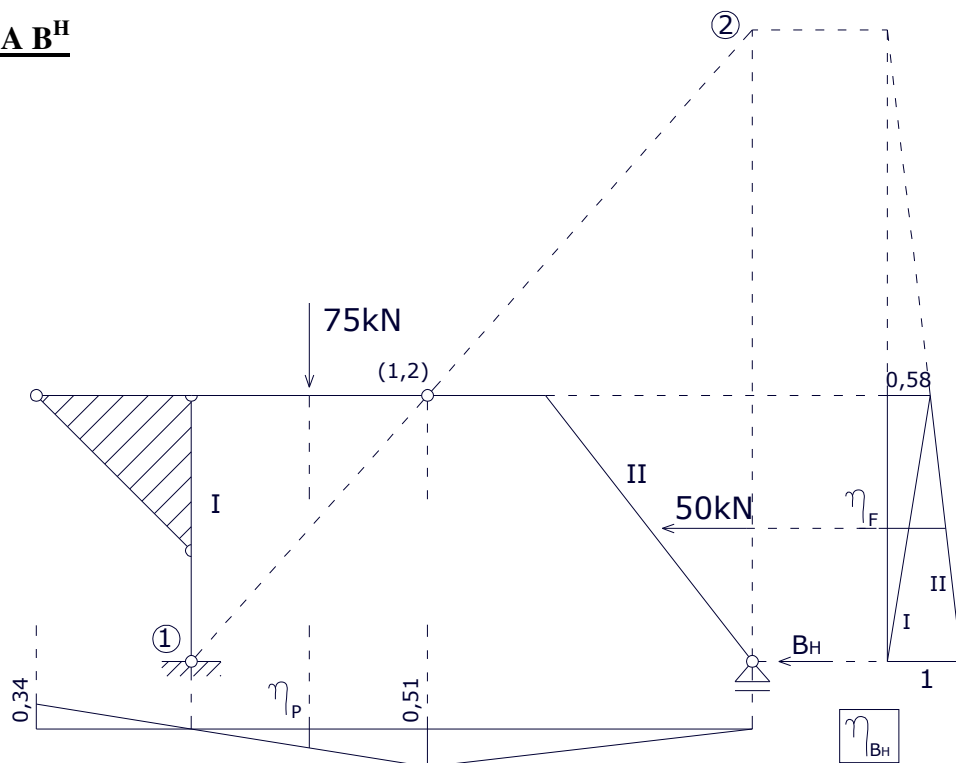
$$A^V = P\eta_P + F\eta_F = \frac{6,0}{7,6}75 + \frac{1,8}{7,6}50 = 71,05\text{ kN}$$

## REAKCIJA A<sup>H</sup>



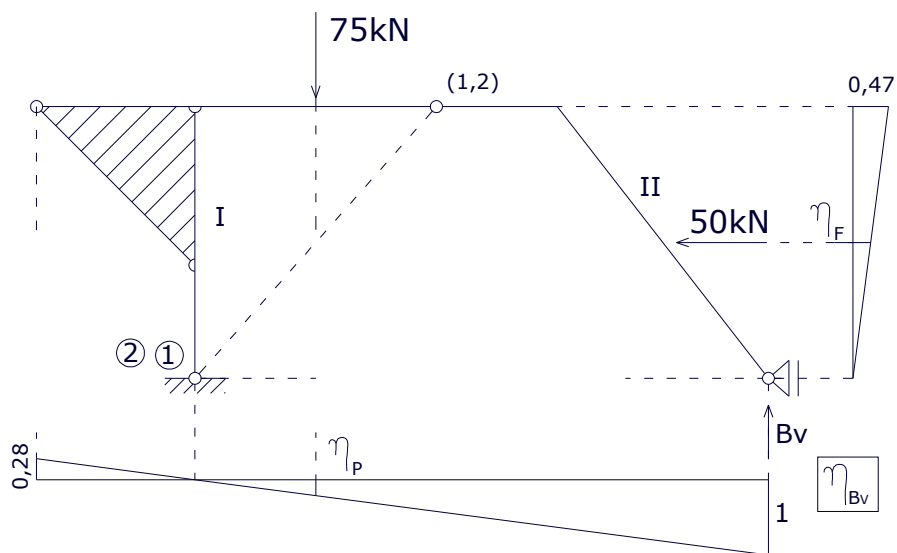
$$A^H = P\eta_P + F\eta_F = \frac{0,52}{3,2}1,6 \cdot 75 + \frac{0,42}{3,6}1,8 \cdot 50 = 29,8\text{ kN}$$

## REAKCIJA B<sup>H</sup>



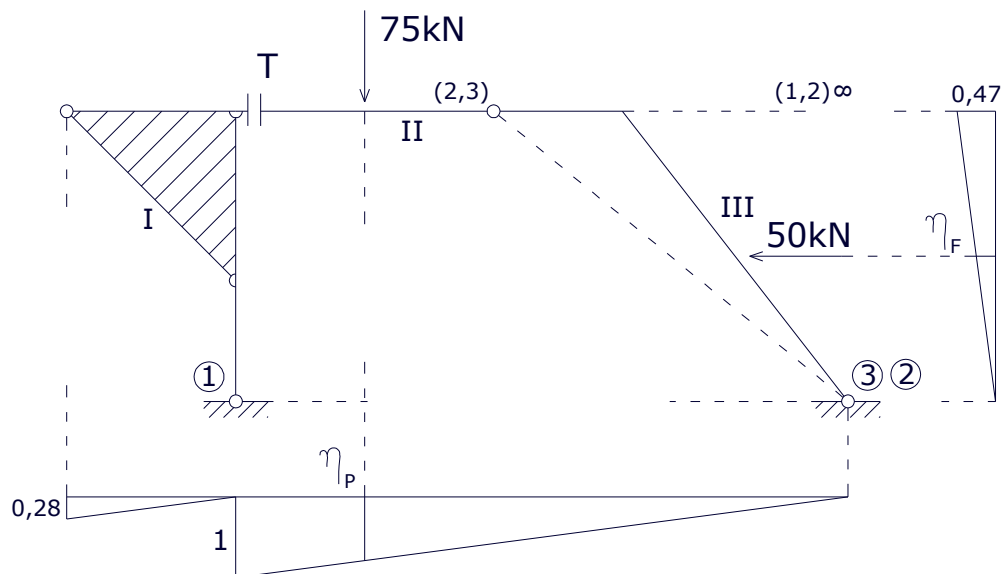
$$B^H = P\eta_P + F\eta_F = \frac{0,51}{3,2} 1,6 \cdot 75 - \frac{6,75}{8,55} \cdot 50 = -20,2\text{kN}$$

## REAKCIJA B<sup>V</sup>



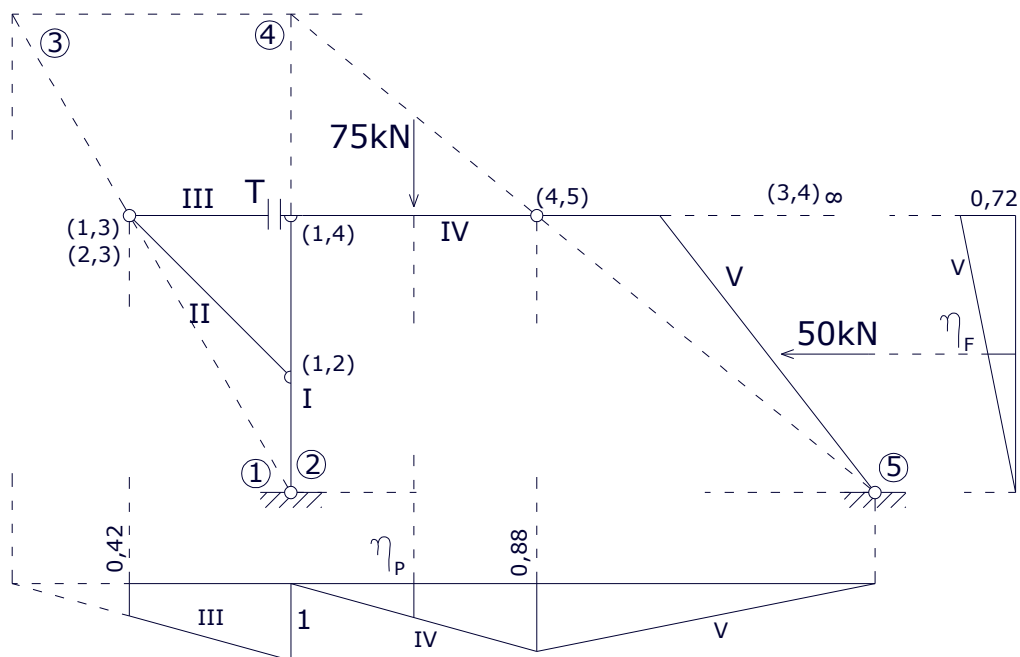
$$B^V = P\eta_P + F\eta_F = \frac{1,6}{7,6} 75 - \frac{0,47}{3,6} 1,8 \cdot 50 = 3,95\text{kN}$$

## POPREČNA SILA T<sup>1</sup>



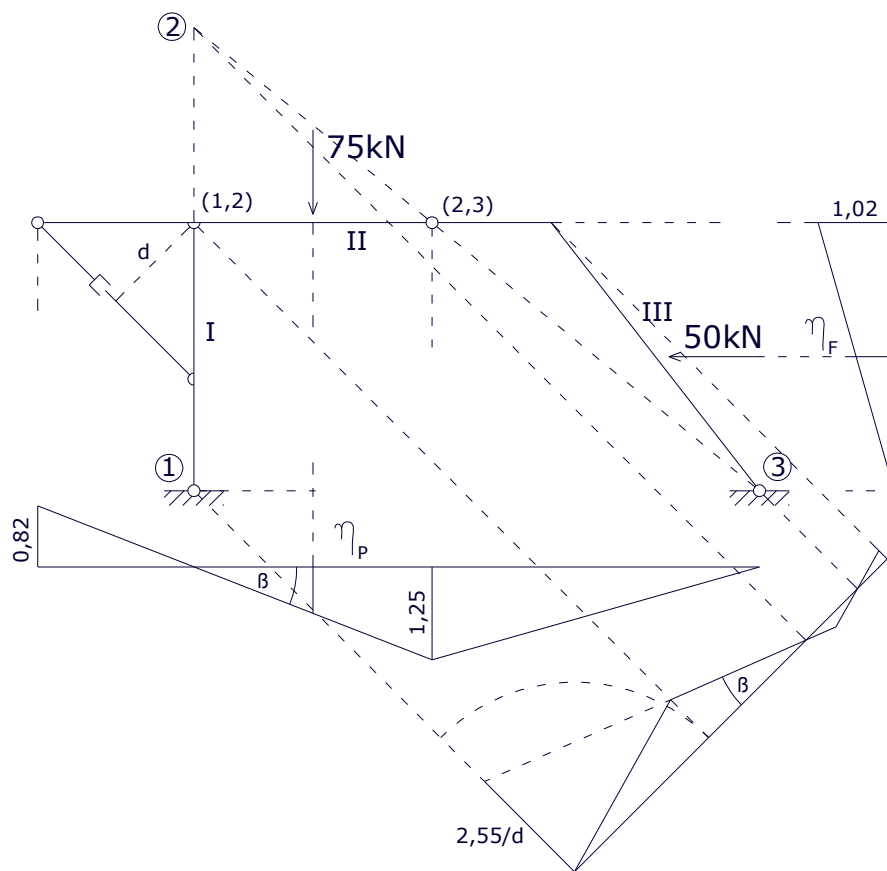
$$T^1 = P\eta_P + F\eta_F = \frac{6,0}{7,6}75 + \frac{0,47}{3,6}1,8 \cdot 50 = 71,05\text{kN}$$

## POPREČNA SILA T<sup>2</sup>



$$T^2 = P\eta_P + F\eta_F = \frac{0,88}{3,2}1,6 \cdot 75 + \frac{0,72}{3,6}1,8 \cdot 50 = 51,13\text{kN}$$

## SILA U ZATEGI



$$\beta = \frac{2,55}{d \cdot 4,4} = \frac{2,55}{1,485 \cdot 4,4} = 0,39$$

$$Z = P\eta_P + F\eta_F = \beta 1,6 \cdot 75 + \beta \frac{3,2}{4,4} 1,8 \cdot 50 = 72,31 \text{ kN}$$