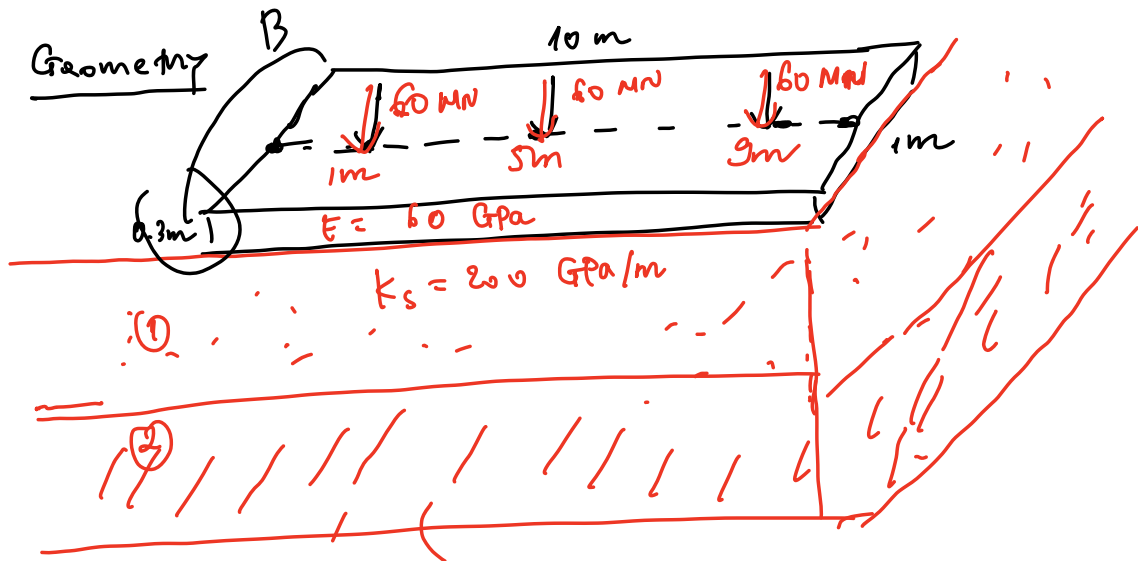
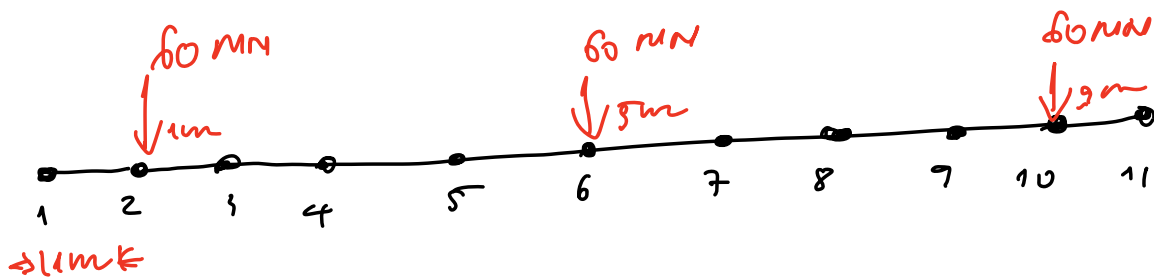


mat foundation using the concept of "beam on elastic foundation".



Find:

- (1) deflection distribution of the mat foundation
- (2) pressure distribution of the soil beneath the mat foundation



Model Parameter:

RC

$$E = 60 \text{ GPa} = 60 \times 10^3 \text{ MPa}$$

$$I = \frac{(1.0)(0.3)^3}{12} = 2.3 \times 10^{-3} \text{ (m}^4\text{)}$$

$$h = 0.3 \text{ m}$$

Soil (Sub ground)

$$k_s = 200 \text{ GPa/m}$$

$$= 200 \times 10^3 \text{ MN/m}$$