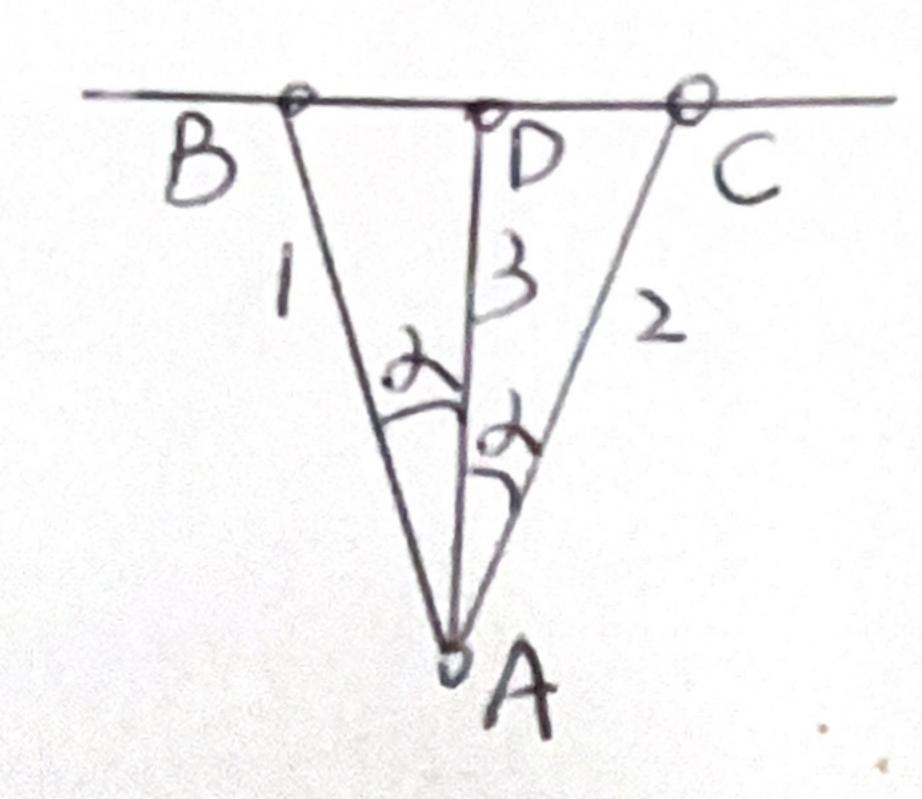
Statically Indetermine



d=20°, b=100m

R= R= 1 = 5mm

F=1000 N

material: steel

E=20061Pa

Static Equilibrium

EFy=0, FMCOSA+FN2COSA+FN3-F=0 (3)

geometry constraint:  $\Delta l_1 = \Delta l_3 \omega s \Delta$   $\Delta l_1 = \Delta l_3 \omega s \Delta$   $\Delta l_1 = \frac{Evil_1}{EA}, \quad \Delta l_3 = \frac{FN3 l_3}{EA}$   $l_3 = l_1 \omega s \Delta$   $l_3 = l_1 \omega s \Delta$ 

$$\Rightarrow$$
  $F_{N1} = F_{N2} = 332.02N$   $F_{N3} = 376.00N$