HNN #3 , Ce 382 Moterials C20 waterial fortour Vms = 1,15 Ymc = 1,5

a) Find the reinforcement area to sotisfy the belonced lines.

In the bolonced follure situation, we should assume that steel reinforce hor just yielded, i.e Es= 420/115=0,0018

For ce equilibrium

Fc + FT = 0 300×0185×fck x k×c1 - fg * As+111 = 0

300 × 0,85 × 20 × 0,85 × 287,5 = 420 × Astoel