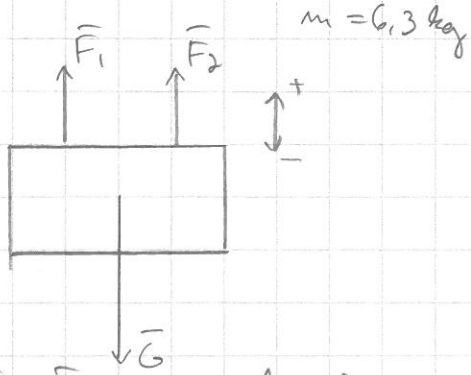


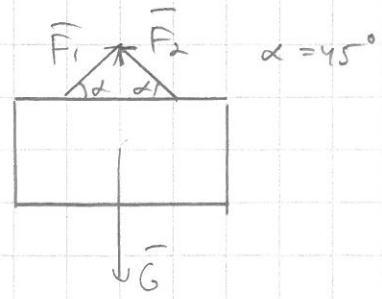
10.12 1°



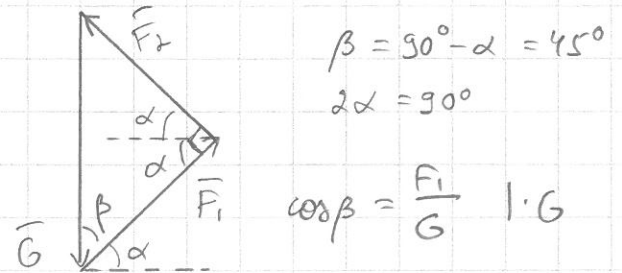
$\vec{F}_1 = \vec{F}_2$  (symmetrie)  
 Taulin tasapainossa:  
 $\sum \vec{F} = \vec{F}_1 + \vec{F}_2 + \vec{G} = \vec{0}$   
 $\Rightarrow 2F_1 - G = 2F_1 - mg = 0$

$\Rightarrow F_1 = \frac{mg}{2} = \frac{6,3 \text{ kg} \cdot 9,81 \frac{\text{m}}{\text{s}^2}}{2}$   
 $= 30,9015 \text{ N}$   
 $\approx \underline{31 \text{ N}}$

2°



$F_1 = F_2$  (symmetrie)  
 Taulin tasapainossa:  
 $\sum \vec{F} = \vec{F}_1 + \vec{F}_2 + \vec{G} = \vec{0}$   
 $\Rightarrow$  väinät muodotetaan kolmion



$\Rightarrow F_1 = G \cos \beta = 6,3 \text{ kg} \cdot 9,81 \frac{\text{m}}{\text{s}^2} \cdot \cos 45^\circ$   
 $= 43,7013 \text{ N} \approx \underline{44 \text{ N}}$

1° ja 2°  $\Rightarrow$  2°:n osittomat

10.16

