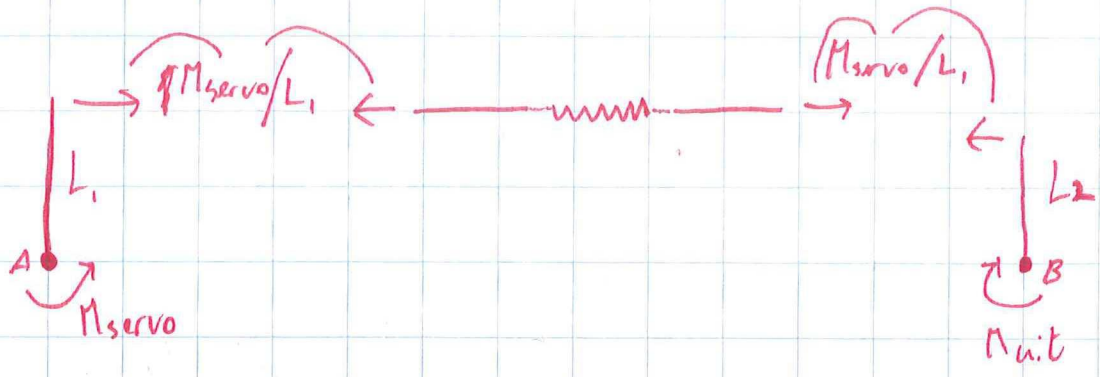
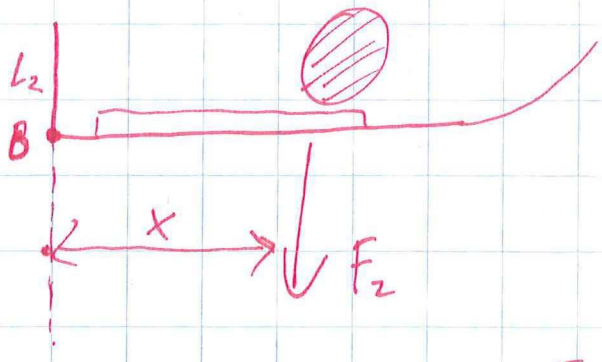


$$M_{uit} = F \cdot L_2 = \frac{M_{servo}}{L_1} \cdot L_2 = M_{servo} \cdot \frac{L_2}{L_1}$$



$$F_2 \cdot X = M_{uit} = M_{servo} \cdot \frac{L_2}{L_1}$$

stel: $F_2 = 2N$ (200 gram)

$X = 50$ mm (0,05 m)

$\Downarrow$

als $M_{servo} = 0{,}15$ Nm

$\Downarrow$

$$2 \cdot 0{,}05 = 0{,}15 \cdot \frac{L_2}{L_1}$$

$$0{,}1 = 0{,}15 \cdot \frac{L_2}{L_1}$$

$$\frac{L_2}{L_1} = \frac{0{,}1}{0{,}15} = \frac{2}{3} \rightarrow L_2 \Rightarrow \frac{2}{3} L_1$$

L_2 groter dan dit is altijd prima.