

e) Vinkelaccleration

$$\alpha_p \coloneqq \frac{r_G \cdot m_p \cdot a_g}{I_C} = 11.772 \ \frac{1}{s^2}$$

$$\alpha_p = 11.77 \; \frac{\textit{rad}}{\textit{s}^2}$$

e) Vinkelaccheration

$$\alpha = \frac{0.75 \, \text{m} \cdot 100 \, \text{kg} \cdot 9.82 \, \text{m/s}^2}{62.5 \, \text{kg m}^2} = 0 \quad \alpha = 11.77 \, \text{rad/s}^2$$

f) Reaktioner på pendulet

$$C_x = -m_p \cdot r_G \cdot \omega_p^2 = -1.2 \cdot 10^3 N$$

$$C_x = -1200 \ N$$

$$C_y \coloneqq -m_p \cdot \left(r_G \cdot \alpha_p\right) + m_p \cdot a_g = 98.1 \ N$$

$$C_y = 98.1 \ N$$

$$(g = -100 \log \cdot 0.75 \text{ m} \cdot 11.77 \text{ rad/s}^2 + 100 \log \cdot 9.81 \text{ m/s}^2$$

=D (a = 9811)

(Statisk reaktion blot til sammenligning

$$C_{ystatisk} \coloneqq m_p \cdot a_g = 981 \ N$$

