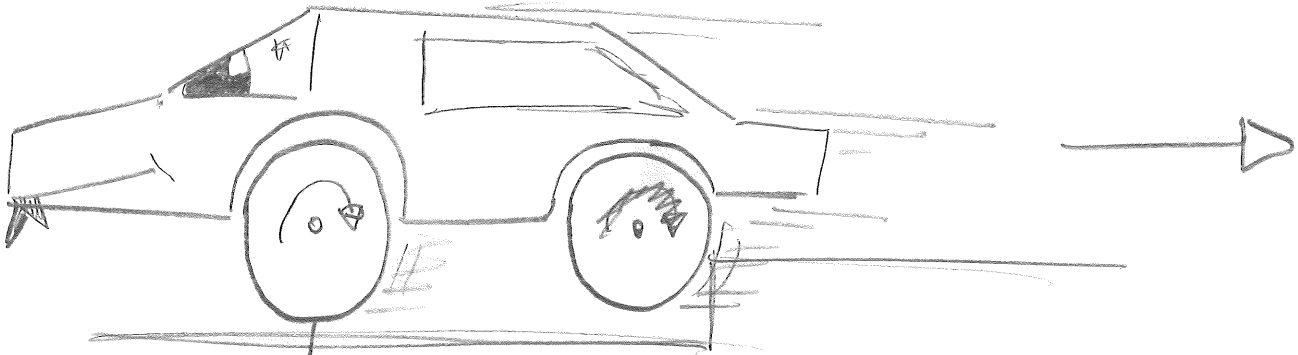


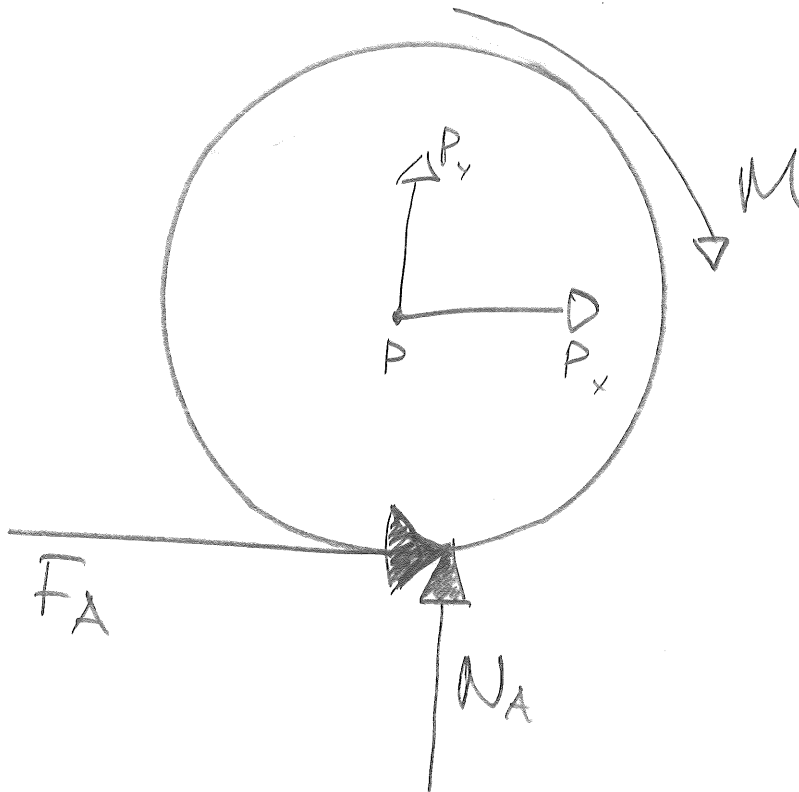
# Föreläsning 7

Biluppgiften!

Se upp för  
3.46!



↳ får inte vara med.



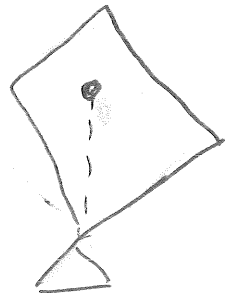
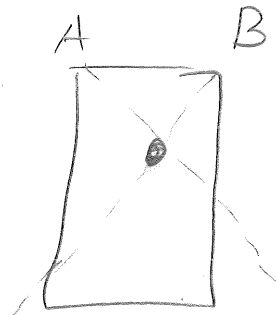
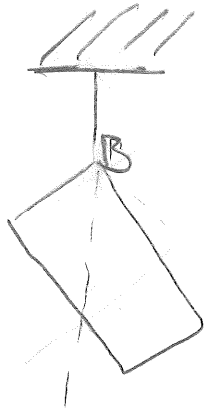
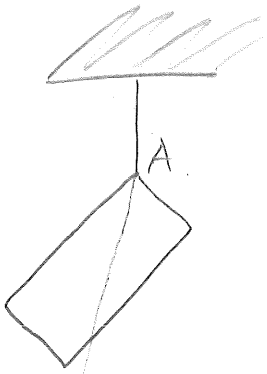
~~UEN~~

01

# Masscentrum

Tyngdpunkt: Den punkt där kraftresultanten angriper

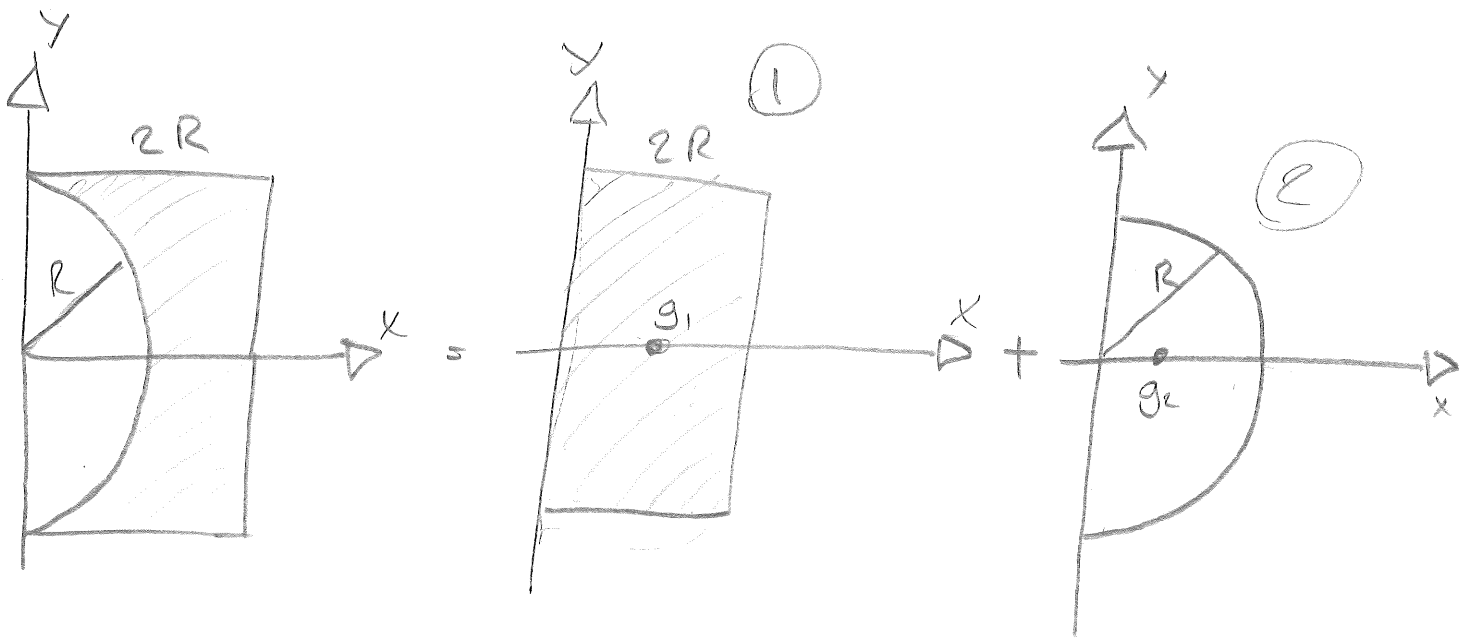
Experimentell bestämning av en plan kropps t-punkt:



# Exempel 9

#s.101

[fig 1]



$$m = \rho A$$

$$\rho \text{ [kg/m}^3\text{]}$$

$$x_G = \frac{x_1 m_1 + x_2 m_2}{m_1 + m_2}, \quad y_G = \frac{y_1 m_1 + y_2 m_2}{m_1 + m_2}$$

$$\textcircled{1} \quad x_1 = R, \quad y_1 = 0$$

$$m_1 = \rho A_1 = \rho (2R)^2$$

$$\textcircled{2} \quad x_2 = \frac{4R}{3\pi} \text{ (tabell)} \quad y_2 = 0$$

$$m_2 = -\rho A_2 = -\rho \frac{51R^2}{2}$$

etc, etc...