

$$l = 50 \text{ cm}$$

$$F_1 = 200 \text{ N}$$

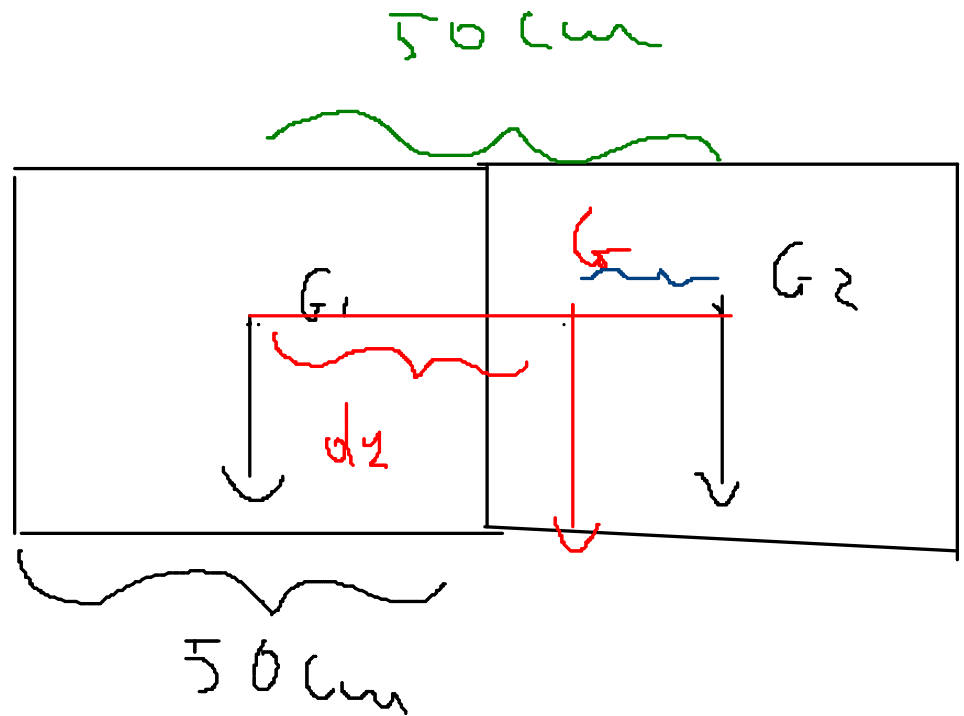
$$d_1 = 37.5 \text{ cm}$$

$$d_1 + d_2 = 50 \text{ cm}$$

$$d_2 = 12.5 \text{ cm}$$

$$F_1 \cdot d_1 = F_2 \cdot d_2 \quad \Rightarrow$$

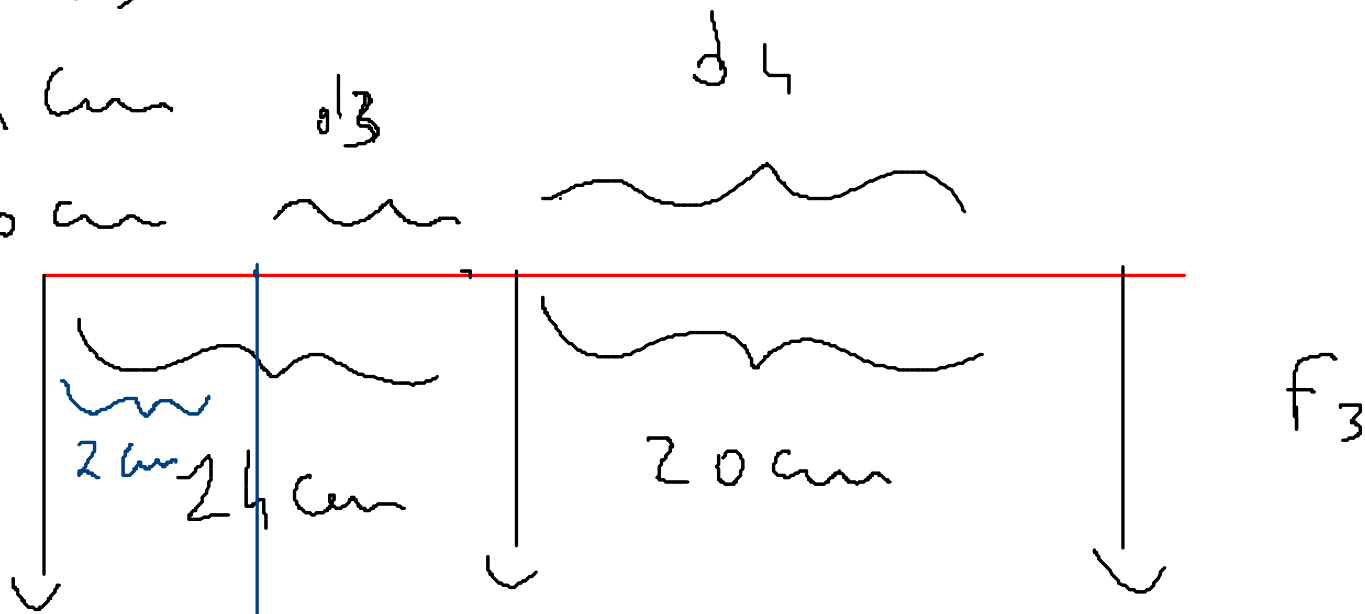
$$F_2 = \frac{F_1 \cdot d_1}{d_2}$$



$$F_1 = F_2 = F_3$$

$$d_1 = 24 \text{ cm}$$

$$d_2 = 70 \text{ cm}$$



$$d = d_3 + d_4$$

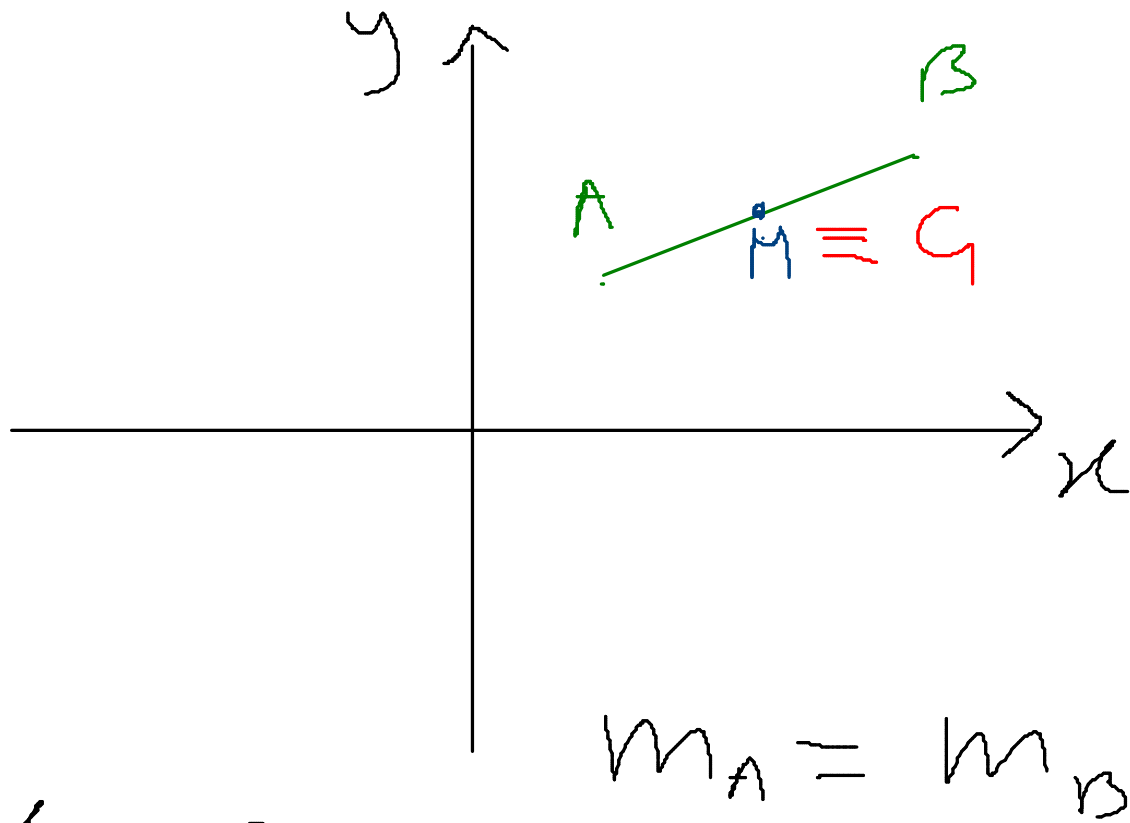
$$F_{12}$$

$$F_{12} \cdot d_3 = F_3 \cdot d_4$$

$$d_3 = d - d_4$$

$$F_{12} \cdot (d - d_4) = F_3 \cdot d_4$$

$$F_{12} \cdot d - F_{12} \cdot d_4 = F_3 \cdot d_4$$



$$x_G = \frac{x_A + x_B}{2}$$

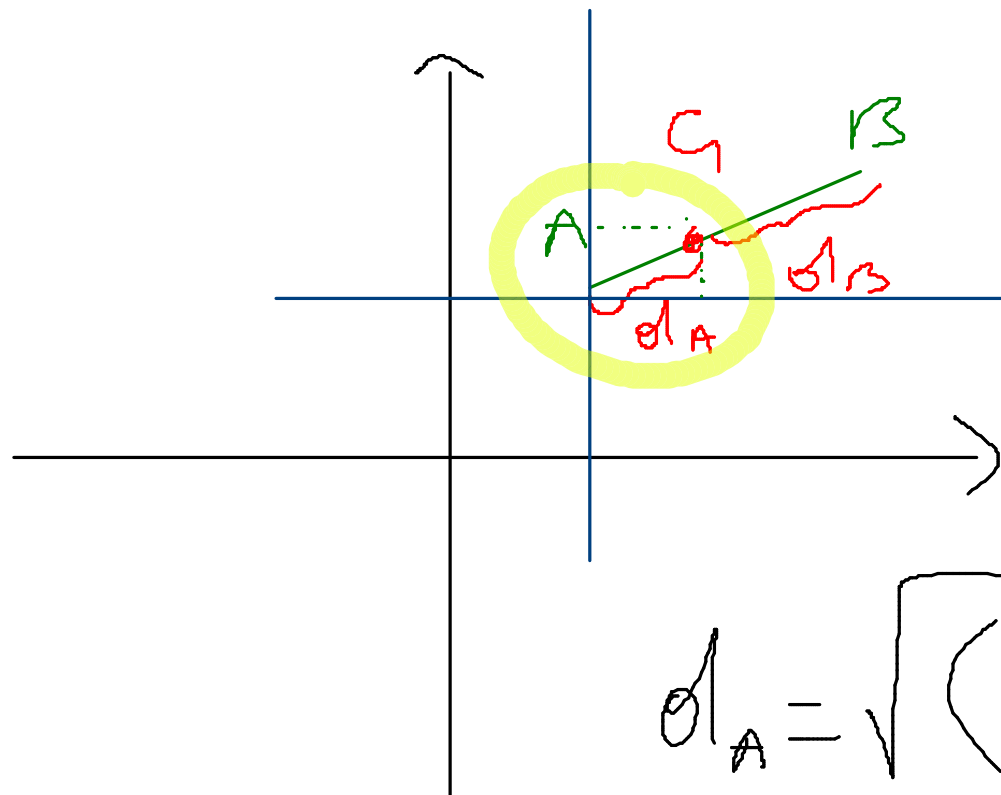
$$y_G = \frac{y_A + y_B}{2}$$

m_A

m_B

$A(x_A, y_A)$

$B(x_B, y_B)$



$$m_A > m_B$$

$$m_A d_A = m_B d_B$$

$$d_A = \sqrt{(x_A - x_G)^2 + (y_A - y_G)^2}$$

$$d_B = \sqrt{(x_B - x_G)^2 + (y_B - y_G)^2}$$

$$\Delta_A m_A = \Delta_B m_B$$

$$\Delta H_A m_A = \Delta H_B m_B$$

$$(u_A - u_G) m_A = (u_B - u_G) m_B$$

$$u_G = \frac{m_A u_A + m_B u_B}{m_A + m_B}$$

Erwin pay 251

n 5, 7, 8