

$$d_1 = 13,5 \text{ m}$$

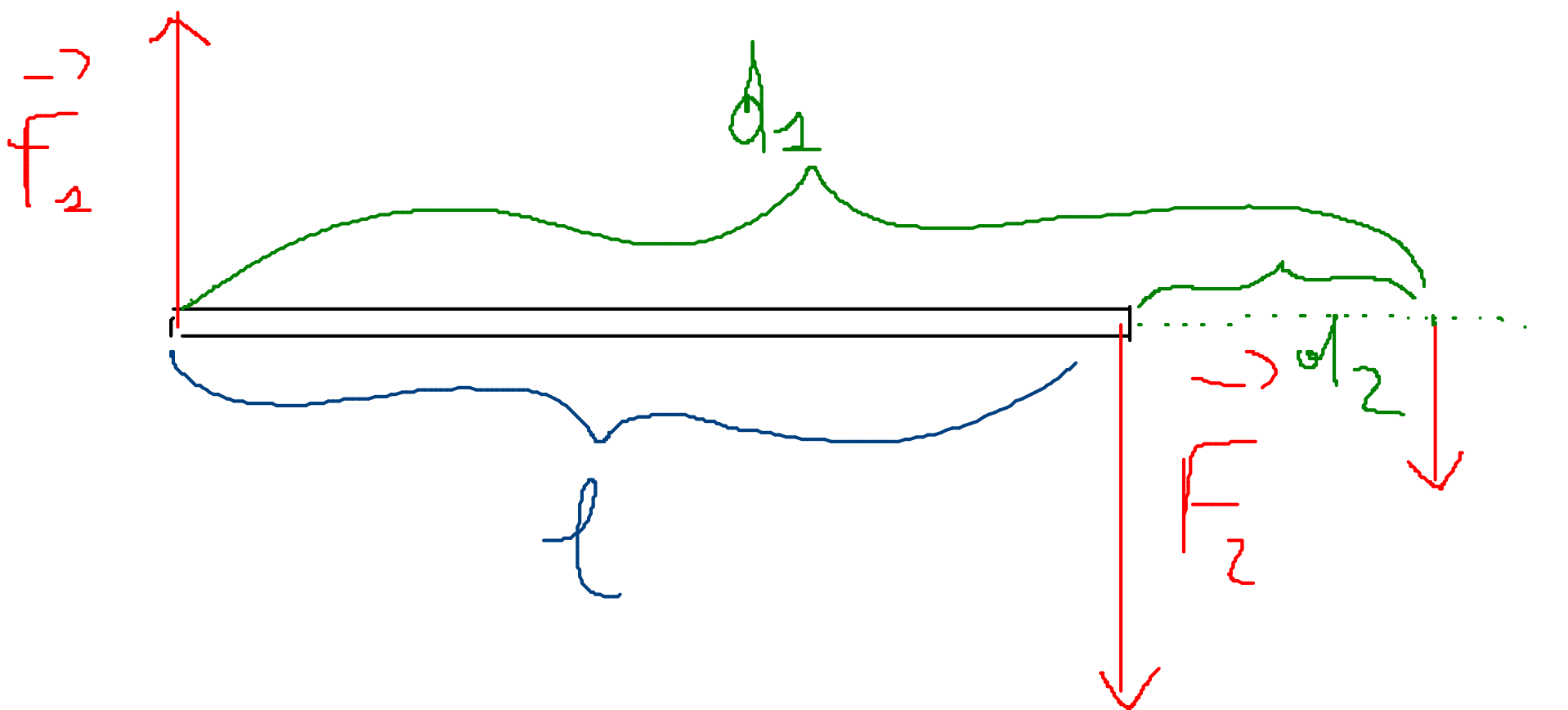
$$F_1 = 200 \text{ N}$$

$$F_2 = 300 \text{ N}$$

$$F = F_2 - F_1$$

$$= (300 - 200) \text{ N}$$

$$= 100 \text{ N}$$



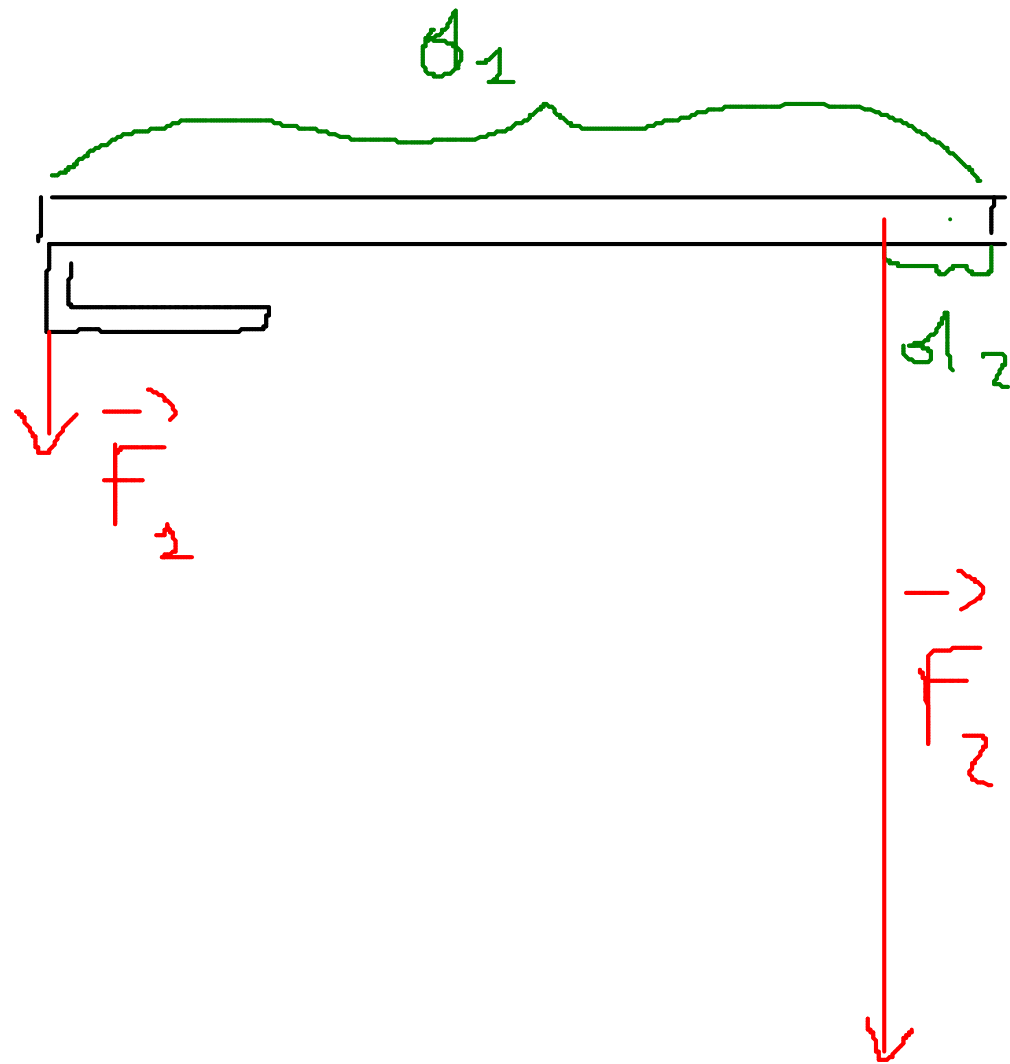
$$\frac{F_1}{F_2} = \frac{d_2}{d_1} \Rightarrow d_2 = d_1 \frac{F_1}{F_2}$$

$$d_2 = 13,5 \text{ m} \frac{\cancel{200 \text{ N}}}{\cancel{300 \text{ N}}} = 9,00 \text{ m}$$

$$l = d_1 - d_2 = 13,5 \text{ m}$$

$$- 9,00 \text{ m} = 4,5 \text{ m}$$

Esercizio n. 2 (pag 135)

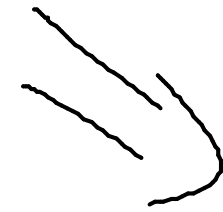


$$M_1 = F_1 d_1$$

$$M_2 = F_2 d_2$$

$$M_1 = M_2$$

$$M_1 = M_2 \Rightarrow F_1 d_1 = F_2 d_2$$



$$\frac{F_2}{F_1} = 16$$

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

$$\frac{d_1}{d_2} = \frac{F_2}{F_1} = 16 \Rightarrow d_1 = 16 d_2$$

$$d_1 = 0,80 \text{ m}$$

$$d_2 = 50 \text{ mm} \cdot 16 = 800 \text{ mm}$$