

AEROSPACE STRUCTURES

MARCO MORANDINI

B12 2nd floor

PROF. CAPORALE

B74

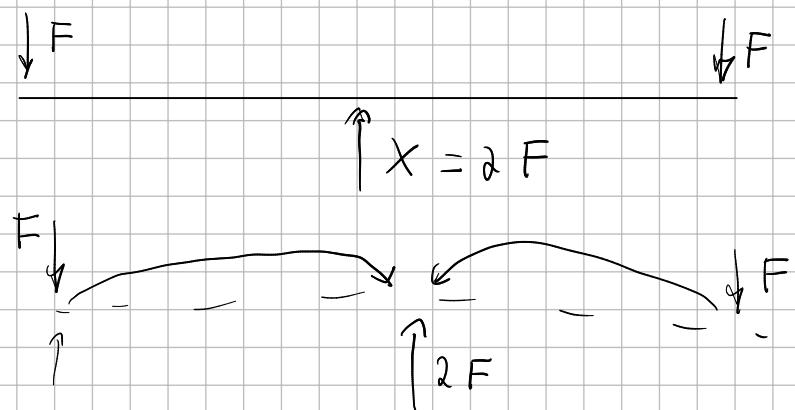
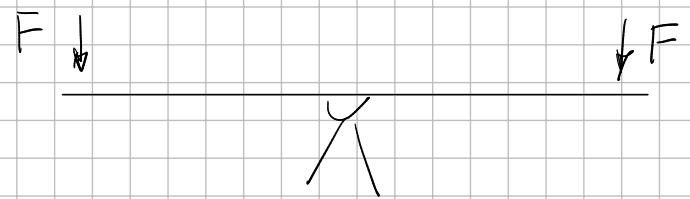
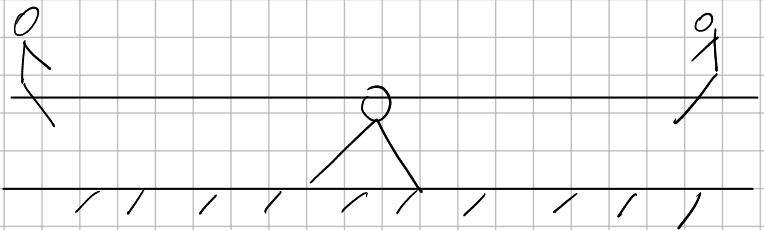
6 exercises	3 points each.	
6 multiple choice	1 point each.	2 h
2 open questions	6 points intotal	30 minutes

if grade ≥ 24

→ 3 points

marco.morandini@polimi.it

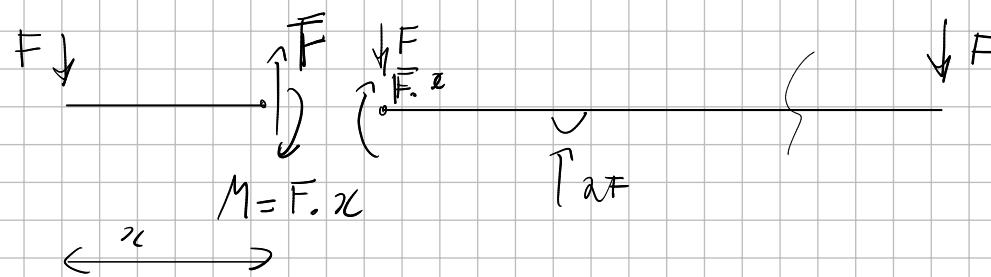
STRUCTURES & STRESS TENSOR.



$$\sum_{i=1}^3 \underline{F}_i = \underline{0}$$

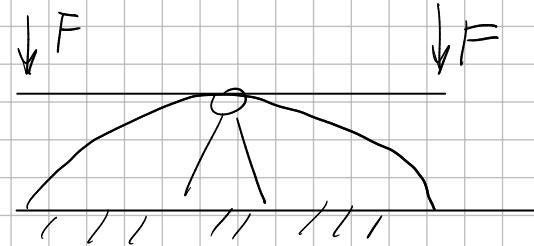
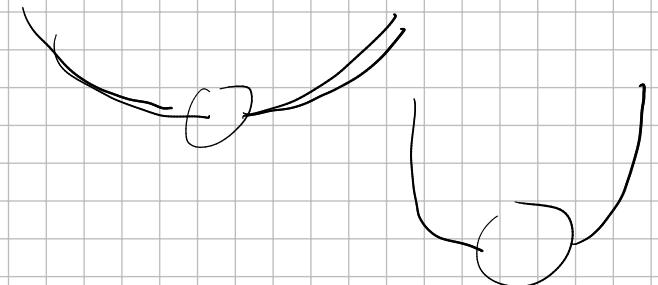
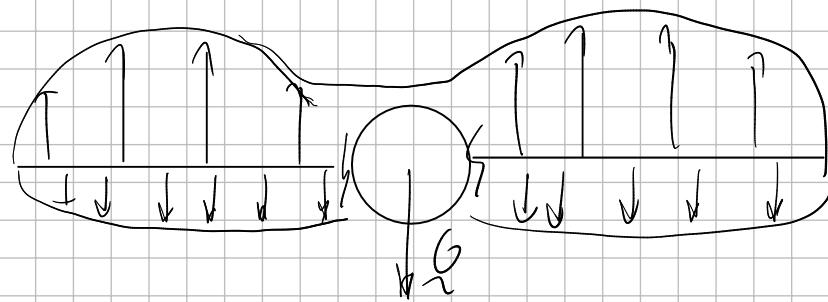
$$\sum_{i=1}^3 (\underline{P}_i - \underline{0}) \times \underline{F}_i = \underline{0}$$

STATICALLY DETERMINED



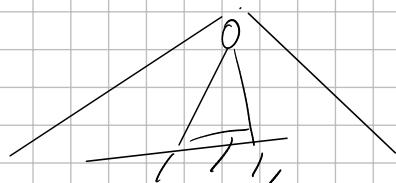
EQUILIBRIUM

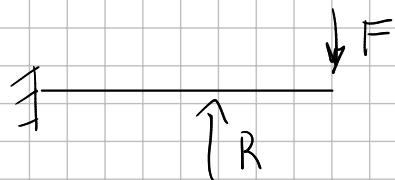
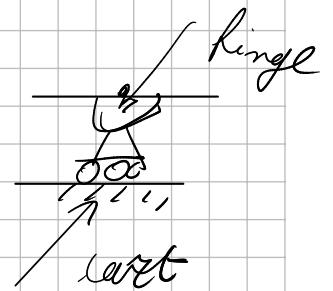
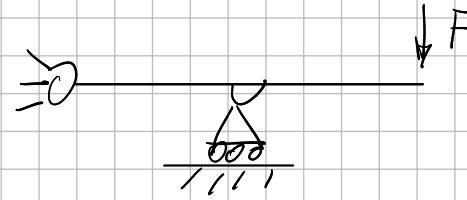
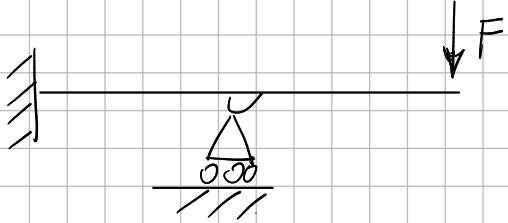
STIFFNESS
REQUIREMENT



STRENGTH

REQUIREMENT





M

$$M + \frac{1}{2}Hd_1 - F \cdot l = \varphi$$

$$H + R - F = 0$$

