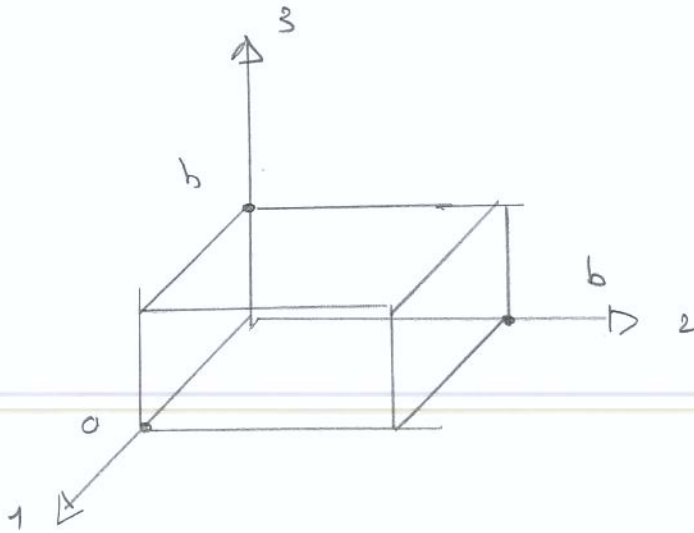


# Probleme on stresses and static admissibility.

## Problem 1

We consider the continuum  $\Omega$  in its present configuration.

$$\Omega = \{0 \leq x_1 \leq a; 0 \leq x_2 \leq b; 0 \leq x_3 \leq h\}$$



$\partial\Omega$  is the boundary of the domain  $\Omega$ .

1) What are the surface tractions over the boundary  $\partial\Omega$  when the stress state is  $\underline{\underline{\sigma}} = \sigma (\underline{e}_3 \otimes \underline{e}_3)$ ?

2) What are the surface tractions over the boundary  $\partial\Omega$  when the stress state is:  $\underline{\underline{\sigma}}(\underline{x}) = \tau (\underline{e}_1 \otimes \underline{e}_3 + \underline{e}_3 \otimes \underline{e}_1)$ ?

