

RÉSISTANCE DES MATÉRIAUX

TD

v1.0

Lycée Jean Zay - 21 rue Jean Zay - 63300 Thiers - Académie de Clermont-Ferrand

TD Transfert ÉLÉMENTS D'INERTIE DES SURFACES

Travail demandé

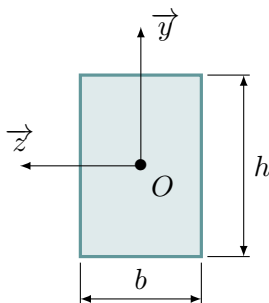
Pour l'ensemble des surfaces suivantes :

Question 1 Déterminer la position du centre de gravité G .

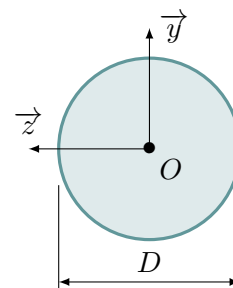
Question 2 Calculer les moments quadratiques $I_{G_y}(S)$ et $I_{G_z}(S)$.

Question 3 Calculer le moment quadratique polaire en G : $I_G(S)$.

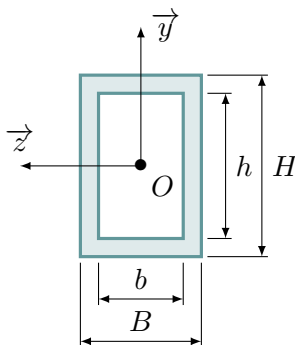
1 Exercice 1



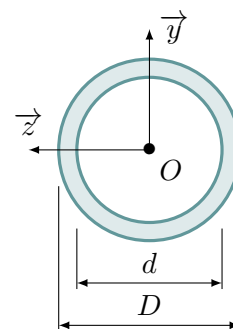
3 Exercice 3



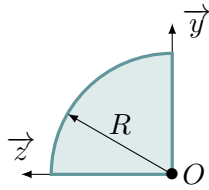
2 Exercice 2



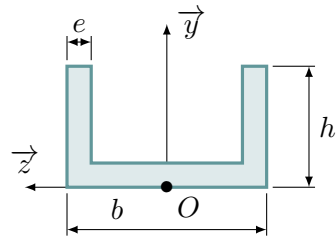
4 Exercice 4



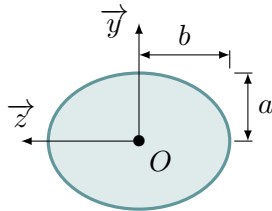
5 Exercice 5



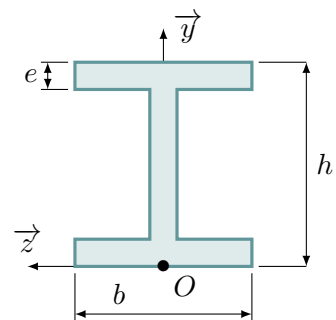
10 Exercice 10



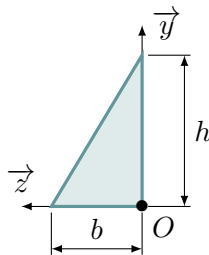
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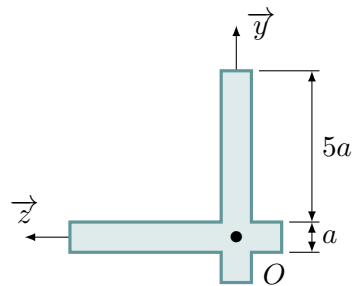
11 Exercice 11



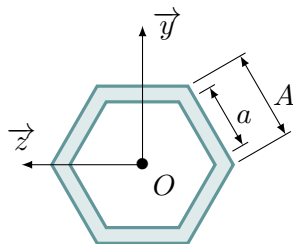
7 Exercice 7



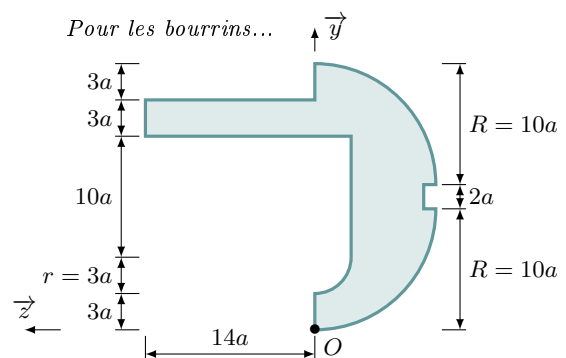
12 Exercice 12



8 Exercice 8



13 Exercice 13



9 Exercice 9

Pour les poètes...

