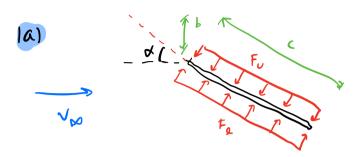
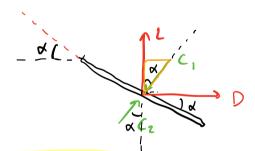
INFINITELY PLATE PLATE, CHORD C, WIDTH b, ANGLE OF ATTACK &
PIFFERENT PRESSURES, BUT CONSTANT 1)



Pascal, 1 N/m2, [Pa] 16)



19) COMPUTÉ CIFT & DRAG DUE TO PRESSURE



$$L = [C_2 \cos \alpha - C_1 \cos \alpha] \cdot b \cdot C$$

$$D = [C_2 \sin \alpha - C_1 \sin \alpha] \cdot b \cdot C$$

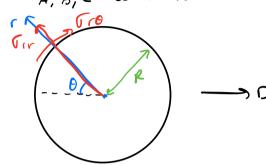
$$UNITS: NEWTON,$$

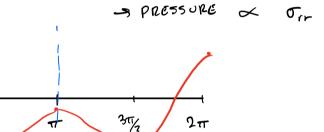
$$T_{rr} = -A\cos 2\theta - B\cos \theta$$

$$T_{r\theta} = C\sin \theta$$



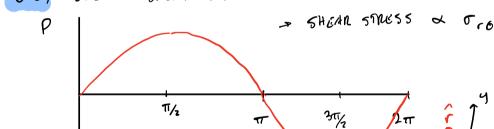
P







11/2





DRAG =
$$\int (\rho_{ressure}) dA$$
 $dA = Rwd\theta$
= $\int -\sigma_{rr} \cdot (050 dA = 2Rw \cdot \int -(-A\cos 2\theta - B\cos \theta)(050 d\theta)$

$$= \int_{0}^{2\pi} \sigma_{r\theta} dA = RW \int_{0}^{2\pi} C \sin\theta d\theta$$

2e) compute lift on the cylinder

$$L = \int_{0}^{2\pi} - \sigma_{rr} \cdot Sh6 + \nabla_{10} \cdot cos6 d\theta$$

$$L = \int_{0}^{2\pi} \left[-(-A\cos 2\theta - B\cos \theta) \cdot Sh\theta + C\sin \theta \cdot \cos \theta \right] d\theta$$

Wolfram > [L=0]
Ly makes sense logically as a symmetrical object

- Airfoil matlab function
 - NACA 2412

