

De produce una perturbación externa sobre la superficie

Vélocidades pequeñas

$$\frac{\partial \mathcal{Q}}{\partial t} = -\frac{\nabla P}{P} - 9 = -\frac{\nabla \left(\frac{P}{P} + 9^2\right)}{\sqrt{P}}$$
(Sí tomo \mathcal{Q} irrota uonal \mathcal{Q} \mathcal{Q} \mathcal{Q} \mathcal{Q}

Due preds pre,
$$\nabla \times \frac{\partial u}{\partial t} = \frac{\partial}{\partial t} (\nabla \times u) = \nabla \times (-\nabla (\frac{p}{p} + g \cdot t)) = 0$$
incompressible

 $\nabla \times \nabla u = \frac{\partial}{\partial t} = \frac{\partial}{\partial t} (\nabla \times u) = \frac{\partial}{\partial t} (\nabla u) = \frac{\partial}{\partial t}$

$$\Rightarrow \nabla \left(\frac{\partial \emptyset}{\partial t} + \frac{P}{r} + g^2\right) = 0 \Rightarrow \frac{\partial \emptyset}{\partial t} + \frac{P}{r} + g^2 = C(t)$$

See
$$t=20$$
 $\Rightarrow P=P0$ $\Rightarrow \frac{30}{30}$ $\frac{40}{50}$ $\frac{40}{50}$ $\Rightarrow 0$

Por wmodidad con alouso de notación
$$\frac{\partial \mathcal{D}}{\partial t} + 920 = 0$$

$$: Z = -\frac{1}{9} \frac{\partial Q}{\partial t} = \left(\frac{\partial Z}{\partial t}\right)^{2} \sim \left(\frac{\partial Z}{\partial t}\right)^{2} = -\frac{1}{9} \left(\frac{\partial^{2} Q}{\partial t^{2}}\right)^{2} = \frac{1}{9} \left(\frac{\partial^{2} Q}{\partial t^{2}}\right)^$$

$$\varphi = Z(2)(1)$$

$$\frac{1}{2} = \sqrt{2}$$

$$\frac{1}{2} = -\sqrt{2}$$

$$\emptyset = Z(z)C(H) = \frac{z}{z} + \frac{1}{9}Z^{2} = 0 \text{ or } \frac{z}{z} = -\frac{1}{2}g$$

$$\frac{z}{z} = -\frac{1$$

MAL, CRIMEN 12 PLANTEABA

QUE DED >0

D= (A' ch(h(z-h)) + B'sh(h(z+h)) con(hx-ω+)

π contorno a h'

kA'sh(h(h+h)) + B'hsh(h(h+h')) con(hx-ω+) = ω² Φ' = 0

Piwter 2) Λ | ΔΦ' = δΦ | Z=0

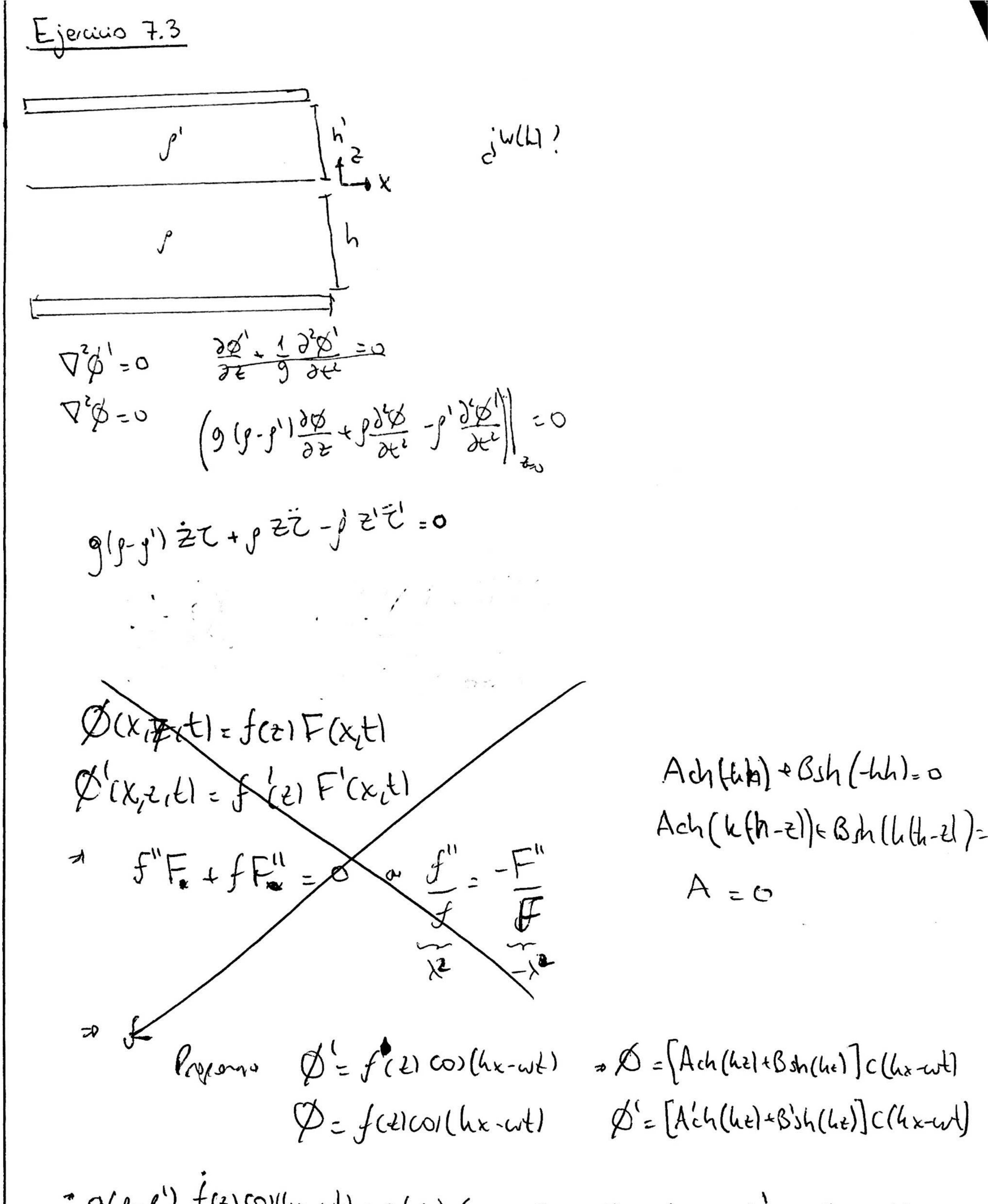
$$\Delta X = \Delta \omega_1(\lambda_1 x) + B \sin(\lambda_1 x)$$

$$\frac{\partial X}{\partial x} \Big|_{z=0} = \left[-A\sin(0) + B\cos(0) \right] \lambda_1$$
 As $B = 0$

$$\frac{\partial X}{\partial x}\Big|_{X=0} = 0 \text{ as } \sin(\lambda_1 \mathbf{a}) = 0 \text{ as } \lambda_1 \mathbf{a} = nTT$$

Por últimos

$$\int_{0}^{\infty} \int_{0}^{\infty} \left[-\omega^{2} + 9 + 9 + 9 + (hh) \right] e^{i\omega t} = 0$$



"9(p-g') f(z)co)(hx-wt) + p (-w) f(z) sin(hx-wt) - p'(-w) f(z) sin(hx-wt) = 0