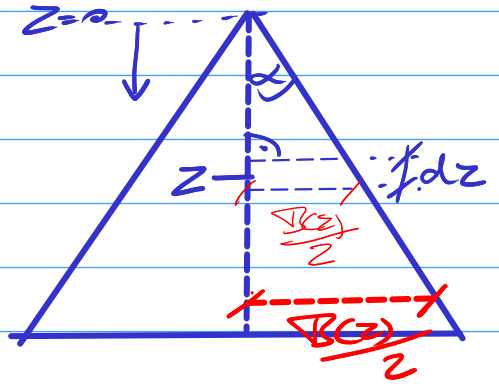


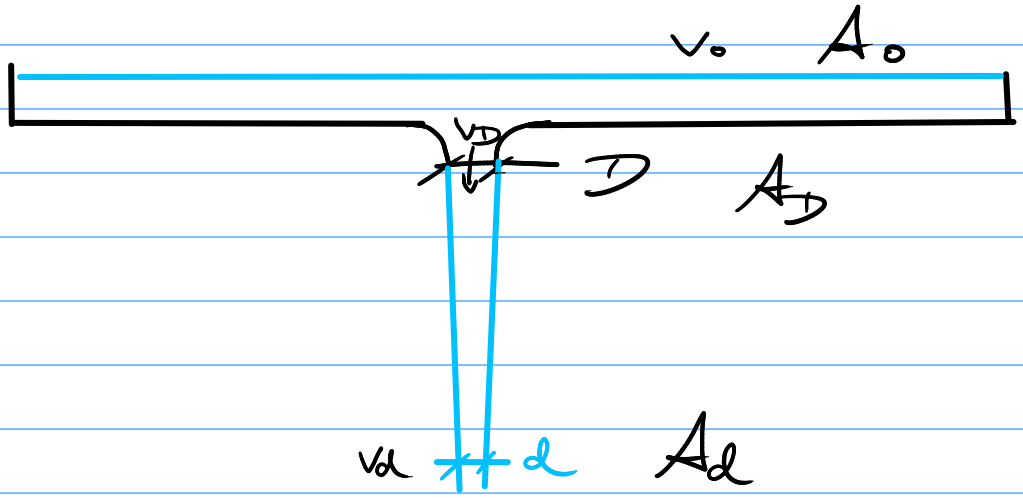
$$\Delta p \, dA = dF$$

$$dA = B(z)\, dz$$

$$\frac{\frac{B(z)}{2}}{z} = \tan\alpha$$

$$\Rightarrow \quad B(z) = 2z\tan\alpha$$

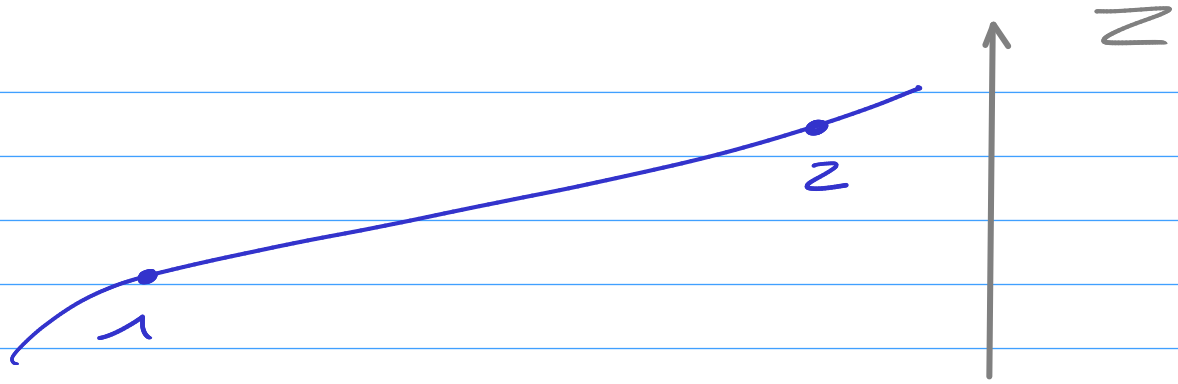
$$z \downarrow \quad p(z) = p_0 + \Delta p + \rho g z$$



$$v_D A_D = v_0 A_0 \quad \Rightarrow \quad v_0 = v_D \frac{A_D}{A_0}$$

$$A_0 \gg A_D > A_d \quad \Rightarrow \quad v_0 \ll v_D$$

Bernoulli: $\ldots \rho \frac{v^2}{2} \ldots = \ldots \rho \frac{v_D^2}{2}$



$$p_1 + \rho\frac{v_1^2}{2} + g\rho z_1 = p_2 + \rho\frac{v_2^2}{2} + g\rho z_2$$

$$p_1 + \rho\frac{v_1^2}{2} + g\rho\underbrace{(z_1 - z_2)}_{\Delta h} = p_2 + \rho\frac{v_2^2}{2}$$