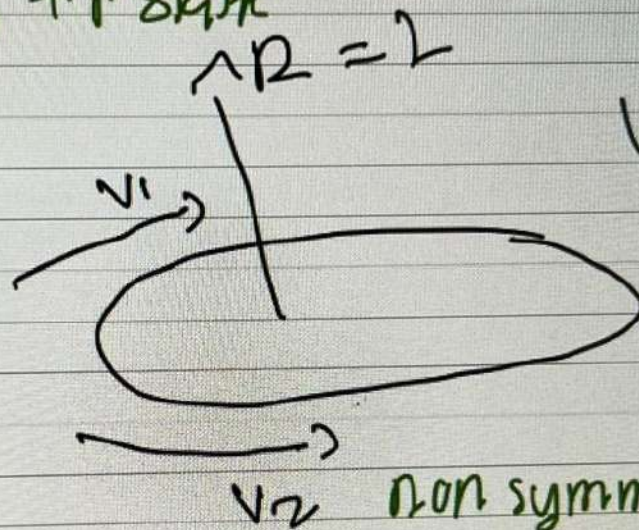


Nouf Albedwawi

$$P_{\text{total}} = P_{\text{dynamic}} + P_{\text{static}}$$

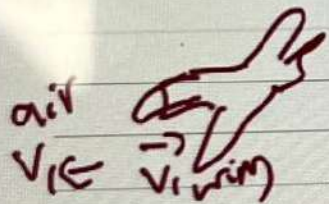


$$V_1 > V_2$$

$$F_1 < F_2$$

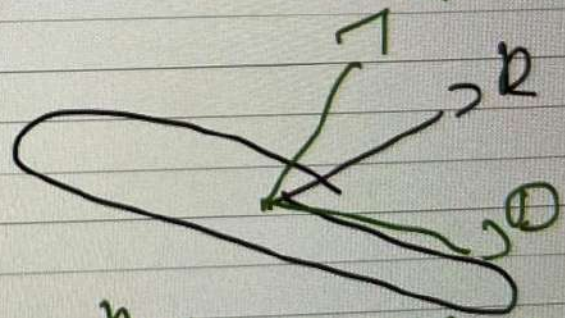
$$F_2 - F_1 \Rightarrow R_1$$

non symmetrical



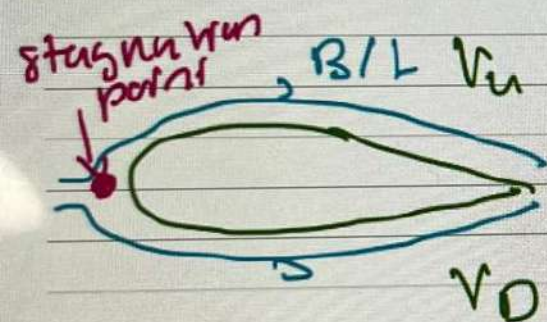
$$V_1 \leftarrow V$$

$V_2 \Rightarrow$ Relative velocity



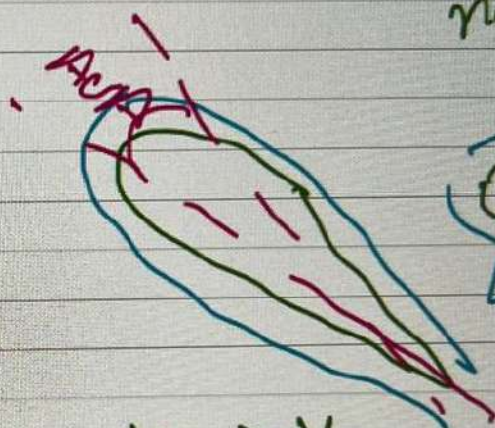
non symmetrical

Both are symmetric



$$V_u = V_D =$$

$$F_u = F_D$$

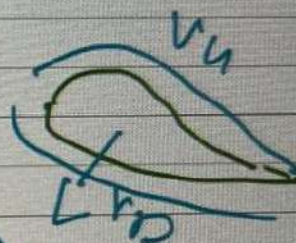


$$V_u > V_D$$

$$F_u < F_D$$

$$F_D - F_u = R(L)$$

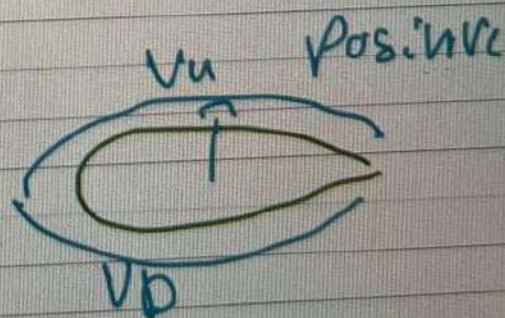
negative lift



$$V_u < V_D$$

$$F_u > F_D$$

$$F_u - F_D = R(L)$$



$$V_u > V_D$$

$$F_u < F_D$$

$$F_D - F_u = R(L)$$

$L > W \Rightarrow \text{ascend}$

$L < W \Rightarrow \text{descend}$

$\text{Thrust} > \text{Drag} \Rightarrow \text{acceleration}$

$\text{Thrust} < \text{Drag} \Rightarrow \text{deceleration}$