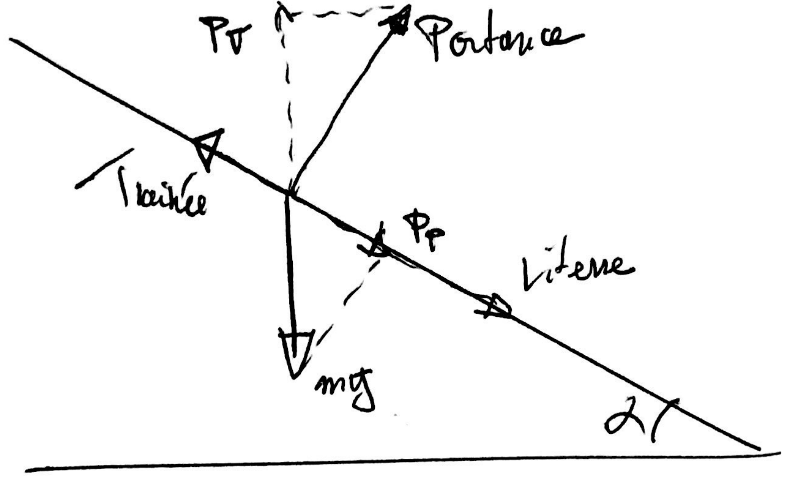

$P =$ Portance $\perp \vec{V}$

$$P = \frac{1}{2} C_z d S V^2$$

Traînée $/\!/ \ \vec{V}$

$$T = \frac{1}{2} C_x d S V^2$$

P_P = Poids pente (projection $\vec{mg}$ sur Trajectoire) $= mg \sin\alpha$

P_V projection portance sur verticale $P_V = P \sin\alpha$

$$P_V = \frac{1}{2} C_z d S V^2 \sin\alpha$$

Vitesse stabilisée $\vec{P} + \vec{T} + \vec{mg} = 0$

$\cancel{tg} =$

Pour rester sur la trajectoire $mg = \frac{1}{2} C_z d S V^2 \sin\alpha$

$$mg = \frac{1}{2} C_z d S V^2 \sin\alpha$$

Traînée $= mg \sin\alpha = \frac{1}{2} C_x d S V^2$

$$mg = \frac{1}{2} C_x d S V^2 \cancel{\ \ } / \sin\alpha$$

$$1 = \frac{C_z}{C_x} \sin^2\alpha \longrightarrow \boxed{F = \frac{1}{\sin^2\alpha}} \qquad \sin\alpha = \frac{1}{\sqrt{F}}$$

$$V^2 = \cancel{\tfrac{2}{2}}\, 2mg \sin\alpha \frac{1}{C_x d S} = \boxed{2mg \frac{1}{\sqrt{F}} \frac{1}{C_x d S} = V^2}$$