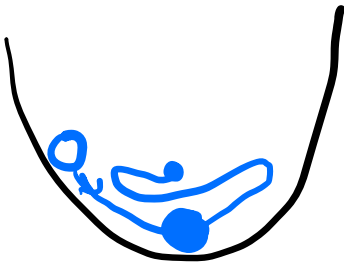


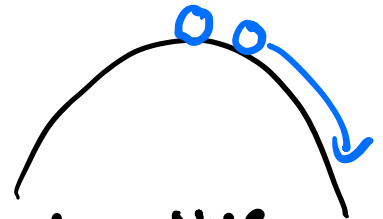
Static Stability



Positive Stability



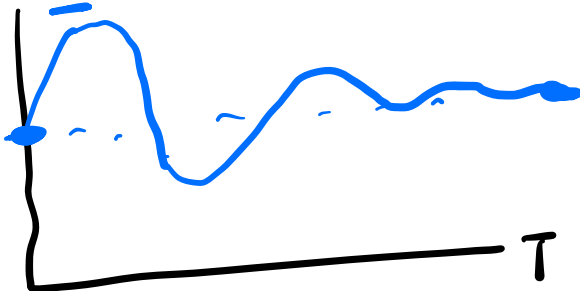
Neutral Stability



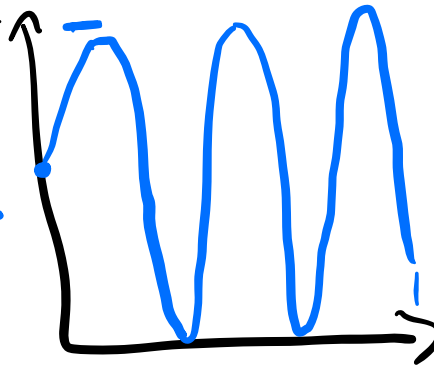
Negative Stability

Dynamic Stability

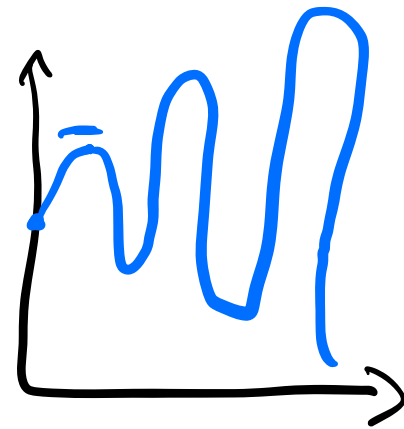
Pitch



Positive Dynamic Stability

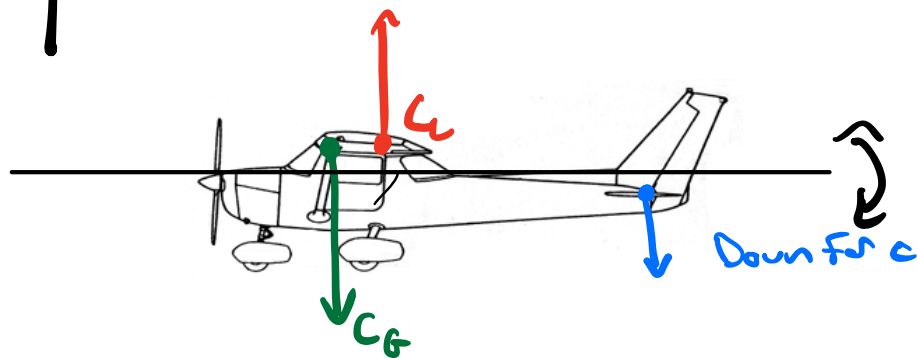


Neutral Dynamic Stability

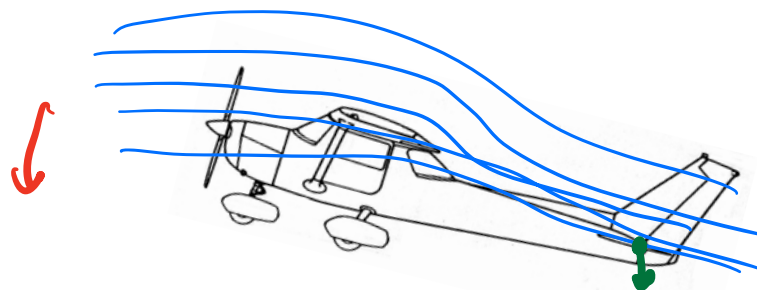
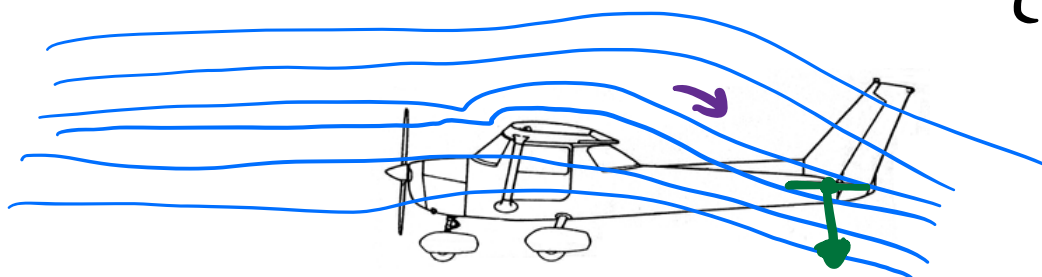


Negative Dynamic Stability

Longitudinal / Pitch



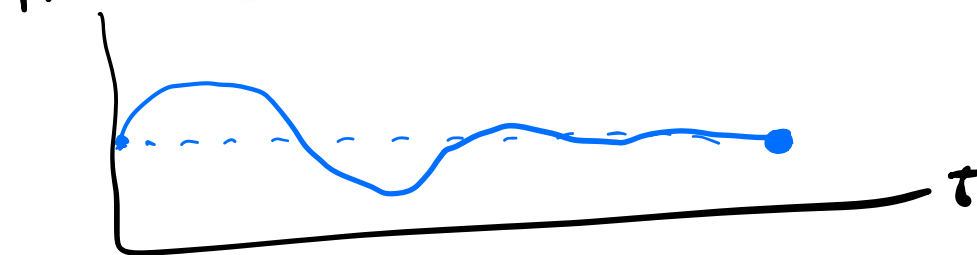
Cruise



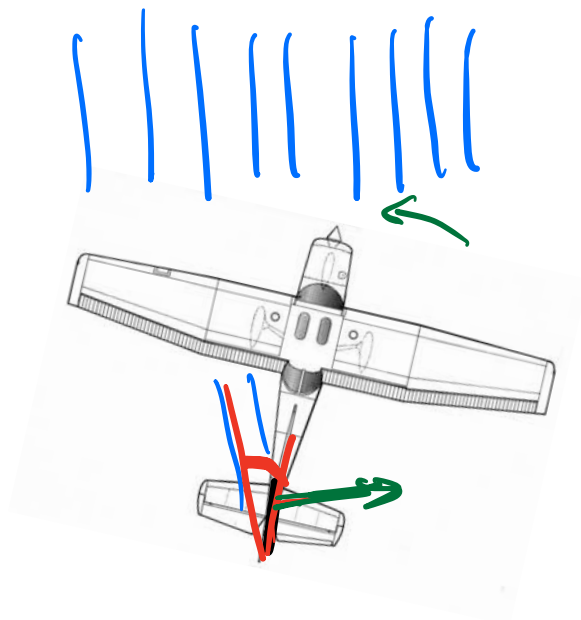
Slower =
Less Downwash



Faster =
More Downwash

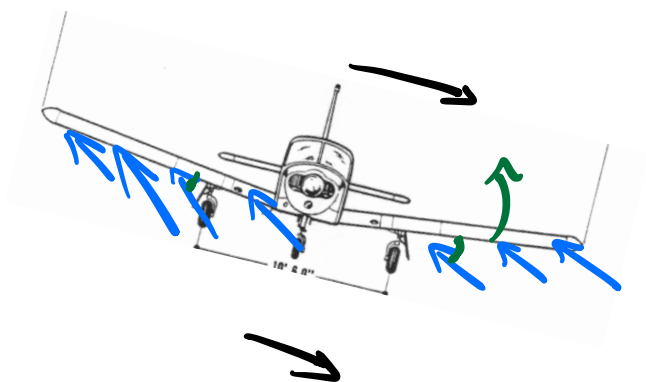
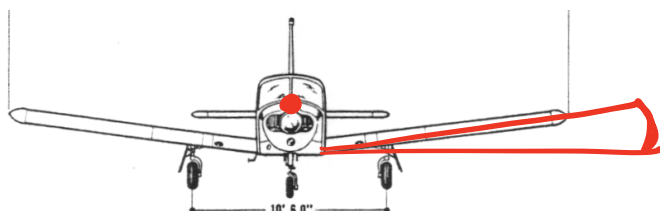


Yaw / Directional Stability

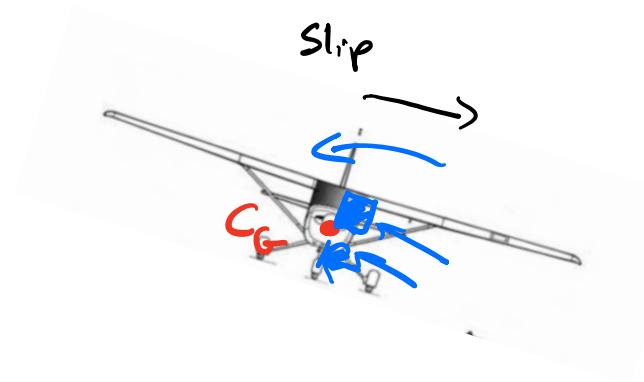


Roll Stability

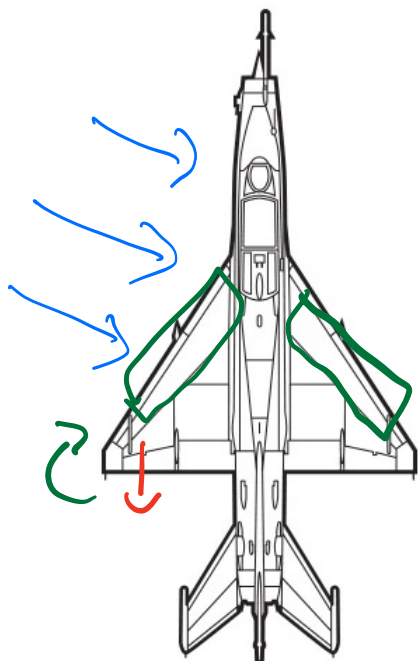
Dihedral



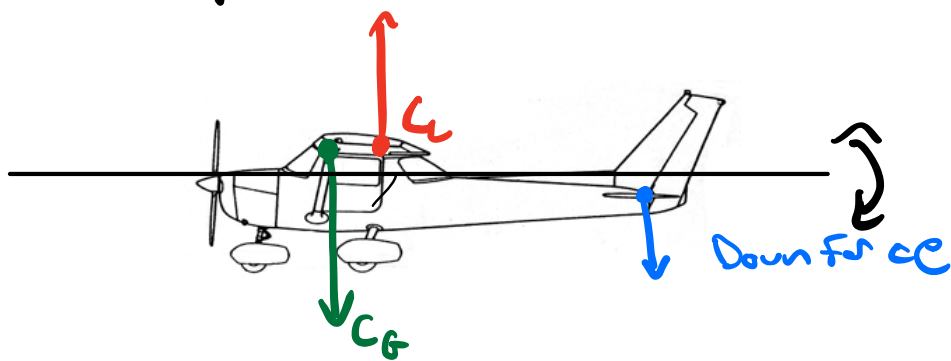
Keel Effect



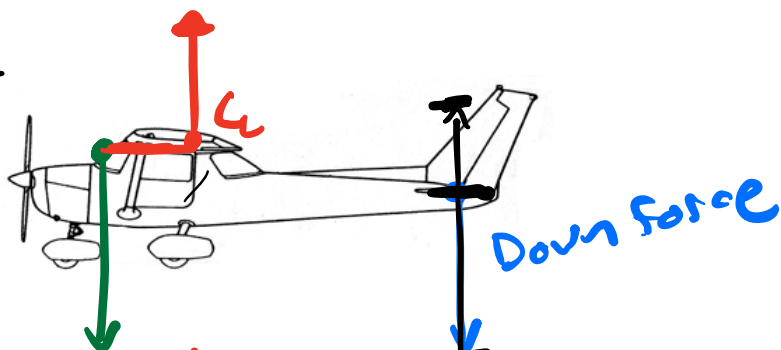
Sweep back



Controllability



Forward C_G
nose-heavy



Aft C_G
Tail-heavy

