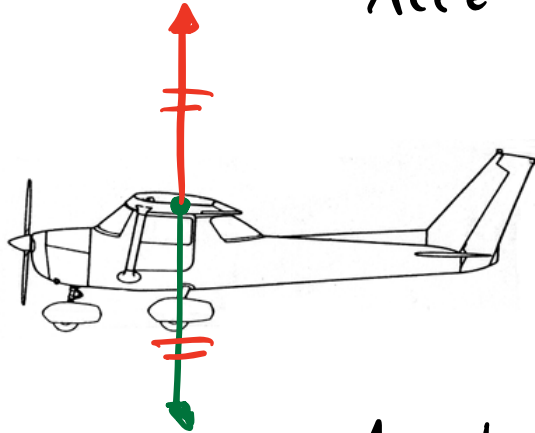
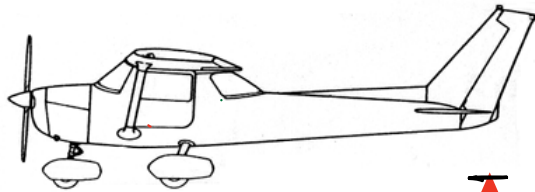


① Load Factor

Accelerated Flight

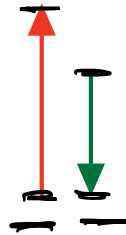


Accelerating



Turns, Climb, turbulence

1.4 G



$$L = K \cdot V^2 \cdot C_L$$

$$C_L =$$



Normal

Utility

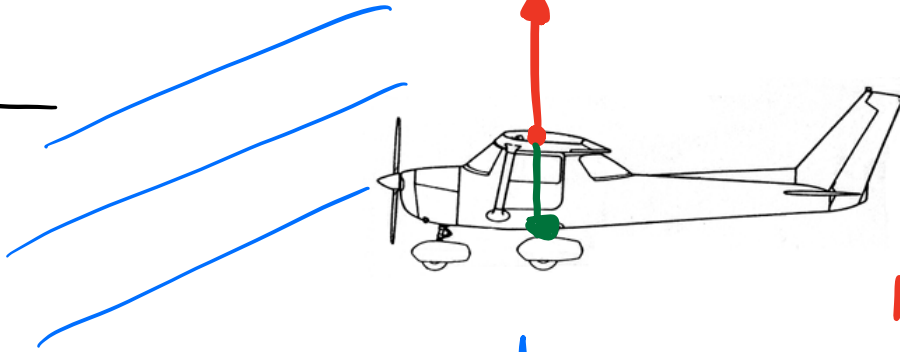
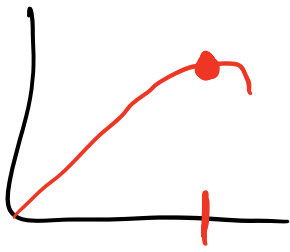
Aerobatic

+3.8 -1.52g

+4.4 to -1.76

6 to -3Gs

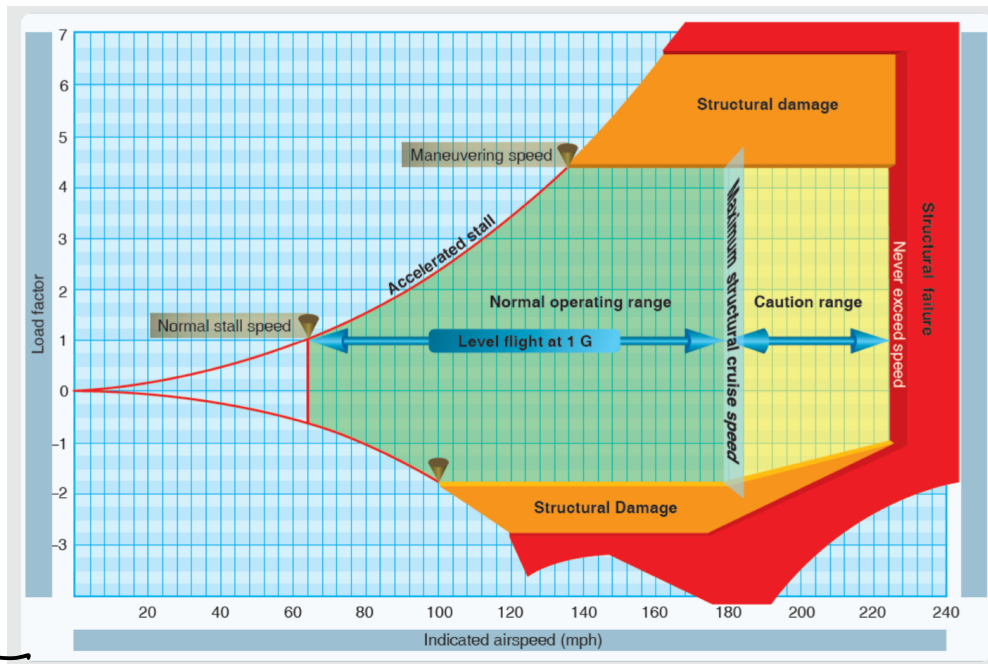
$$L = \underline{K} \underline{V^2} C_L$$



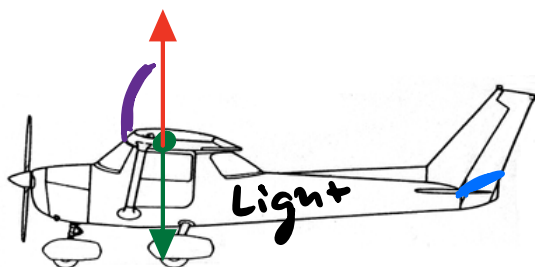
V_A = Maneuvering Speed

100 kts
↑
Overspeed
less
likely

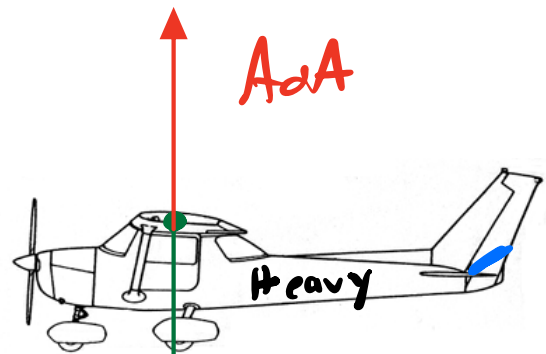
200 kts
↑
Overspeed
more
likely



V_A = Maneuvering Speed

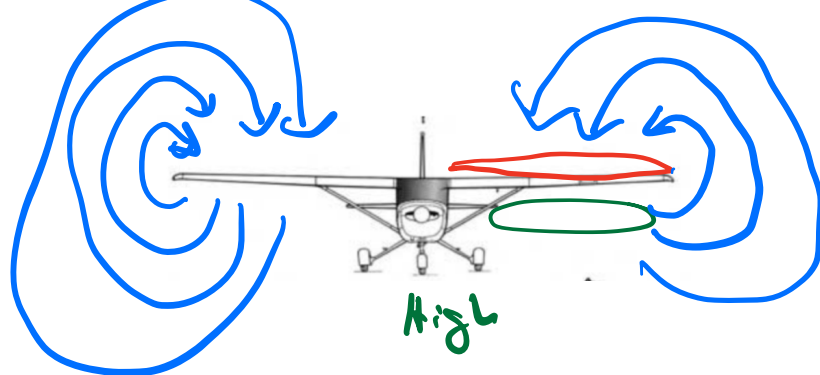
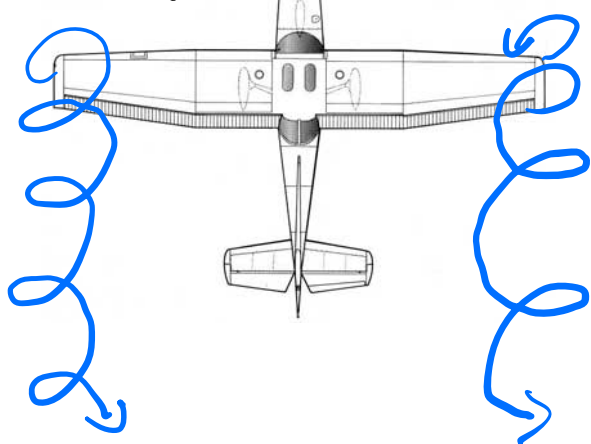


V_A lower



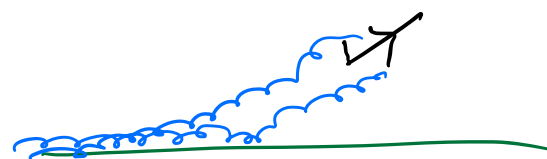
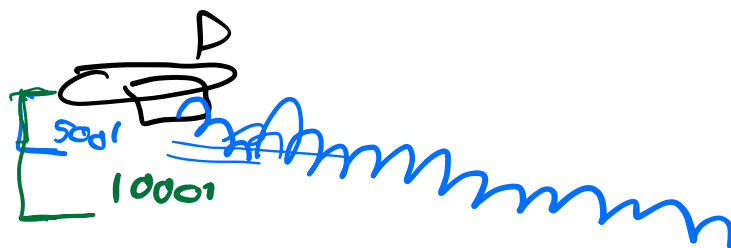
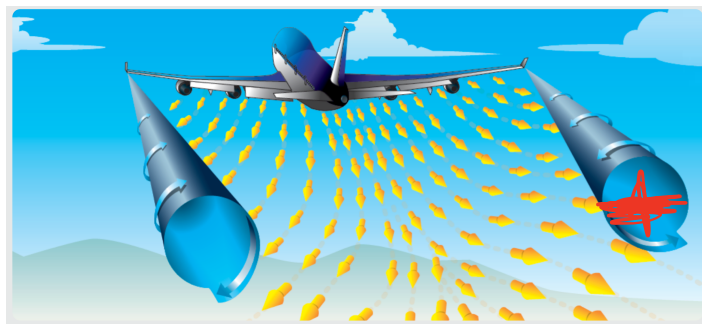
V_A higher

Wing tip Vortices



Biggest = High AoA

- Slow - Clean - Heavy



Parallel : Delay
3 minutes

Same Runway
2 minutes

