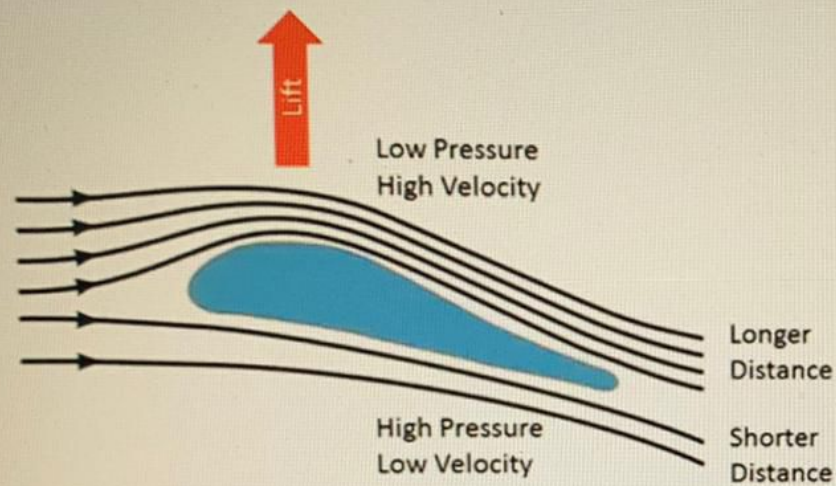
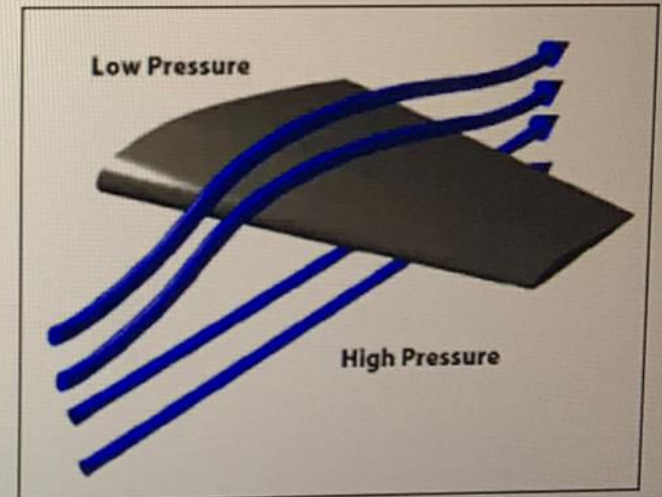
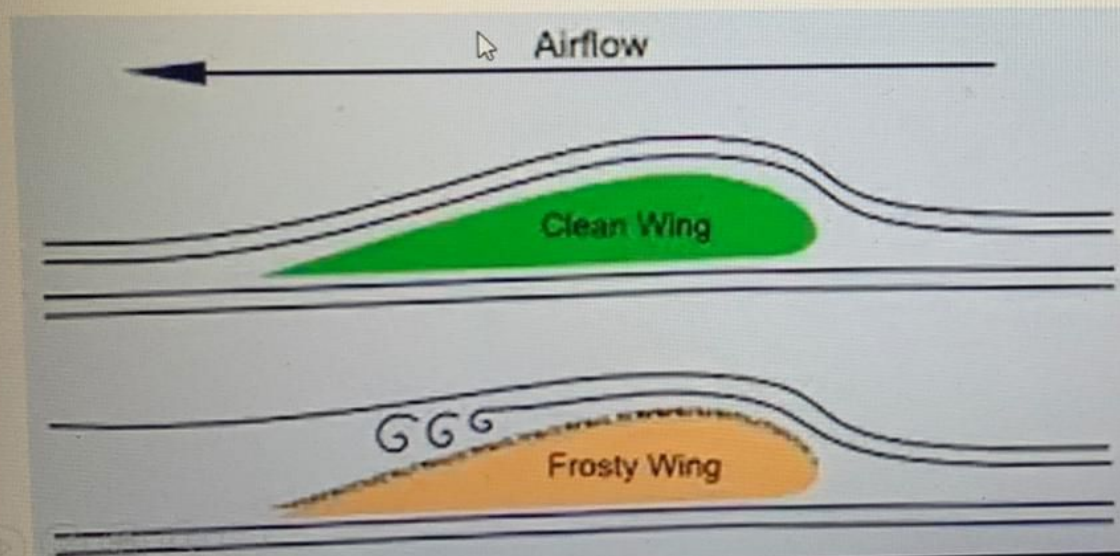


Aerodynamic Lift – Explained by Bernoulli's Conservation of Energy Law



Also known as the "Longer Path" or "Equal Transit" Theory



- **Thrust:** jet engines' sucks air backward, plane moves forward counters air resistance
- The higher the aircraft the less dense the air the lower the resistance

Basic Principles

- Pressurize cabins
- Brakes: wing flaps
- Landing most difficult

Civil Air transport Carrier Characteristics that led to its very fast growth (compared to earlier service):

- Safety
- Speed
- Space
- Service
- Reliability

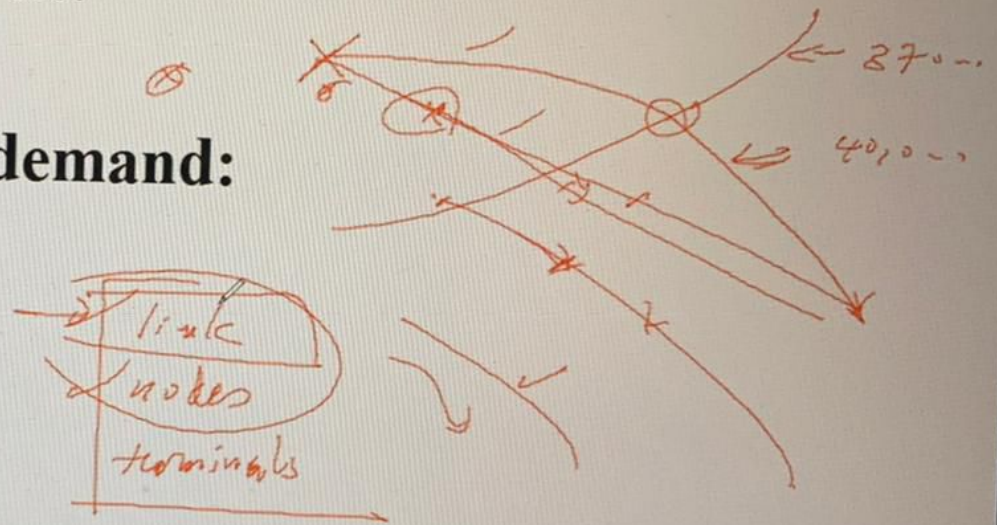
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Airport Planning:

Airport Demand: annual passenger demand, number of flight operations per annum, per peak day, per peak hour, etc.

Factors that influence airport demand:

- Population
- Economic Character
- Hub airport (transfer center)
- Proximity to other airports



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