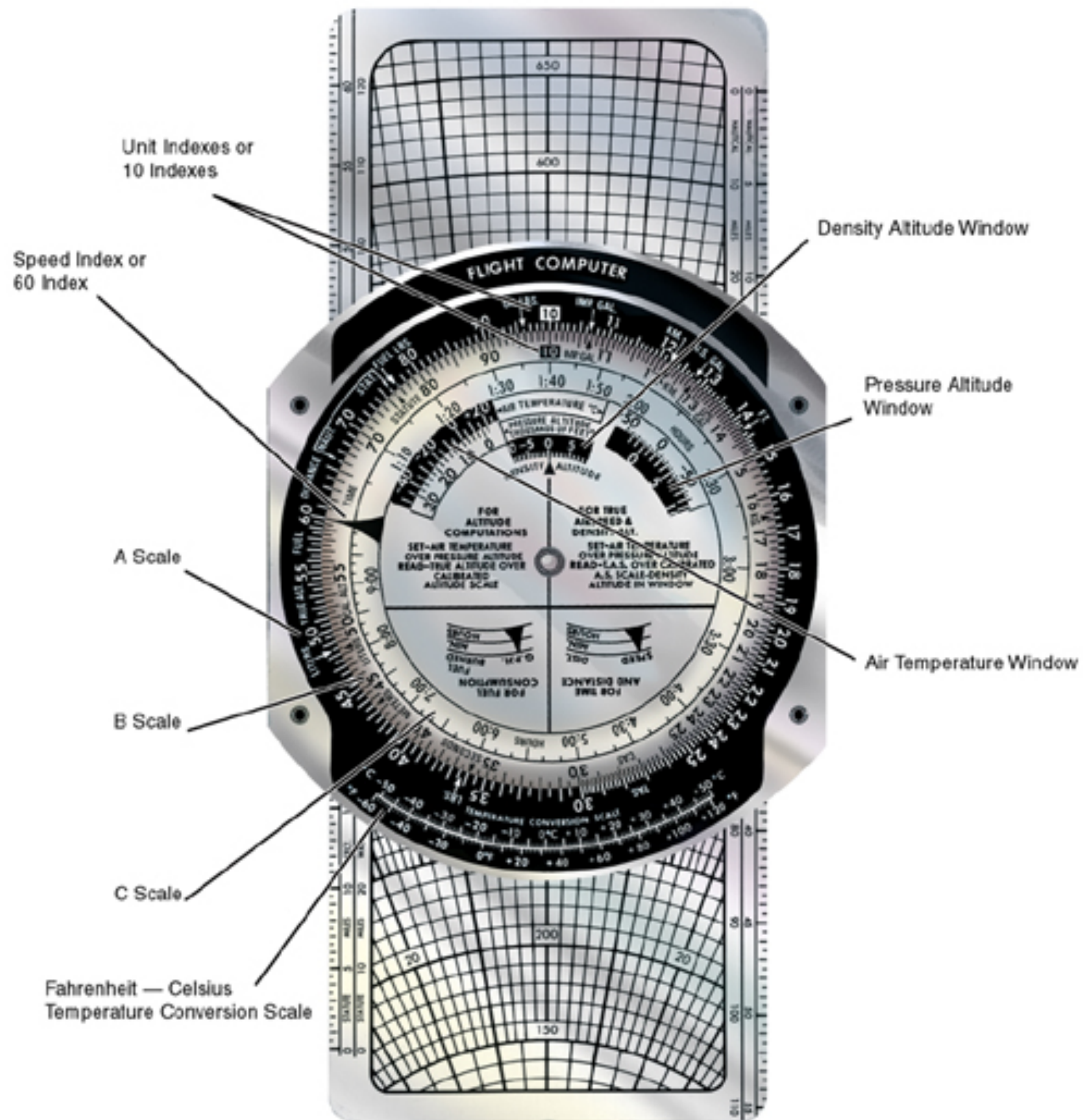




Flight Computers

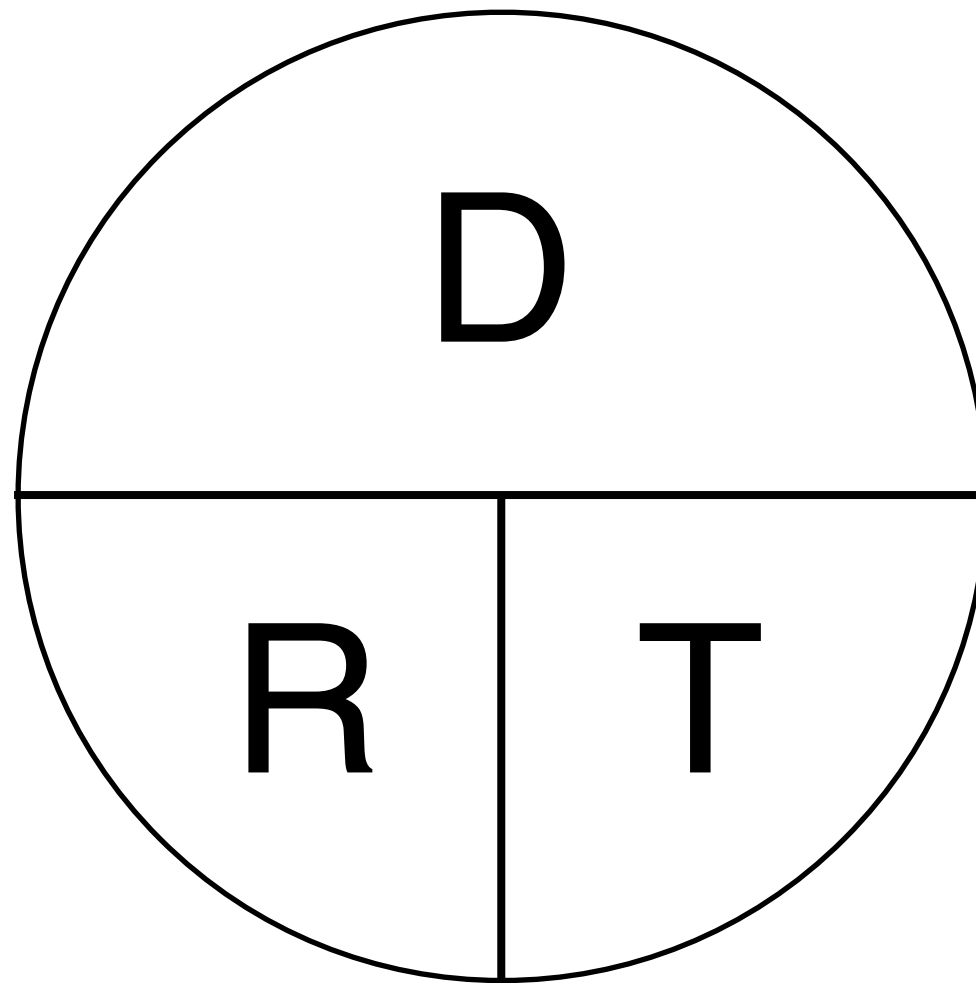


- Scales A, B, C
- Unit Index
- Speed Index
- Temperature Conversion
- Temperature/Density Windows

Basic Math

- Use Unit index for numeric calculations
 - 5×4 , 9×7 , 30×25
- Use Speed index for time calculations
 - 120 Kts, 30 mins
 - 90 Kts, 45 mins
 - 110 Kts, 3+25

Time-Distance Problems



$$\text{Distance} = \text{Rate} \times \text{Time}$$

Short Time Distance

- For small time - distance calculations
- 36 Replaces speed index
- 36 represents 3600 seconds = 1 hour
- B Scale represents seconds

Fuel Consumption

- Same as distance
- Gallons/hour in stead of Miles/hour
- Fuel Consumption: 30 gallons in 2+40
- Fuel Required: 5 hours at 18 gph
- Endurance: 80 Gallons at 15 gph

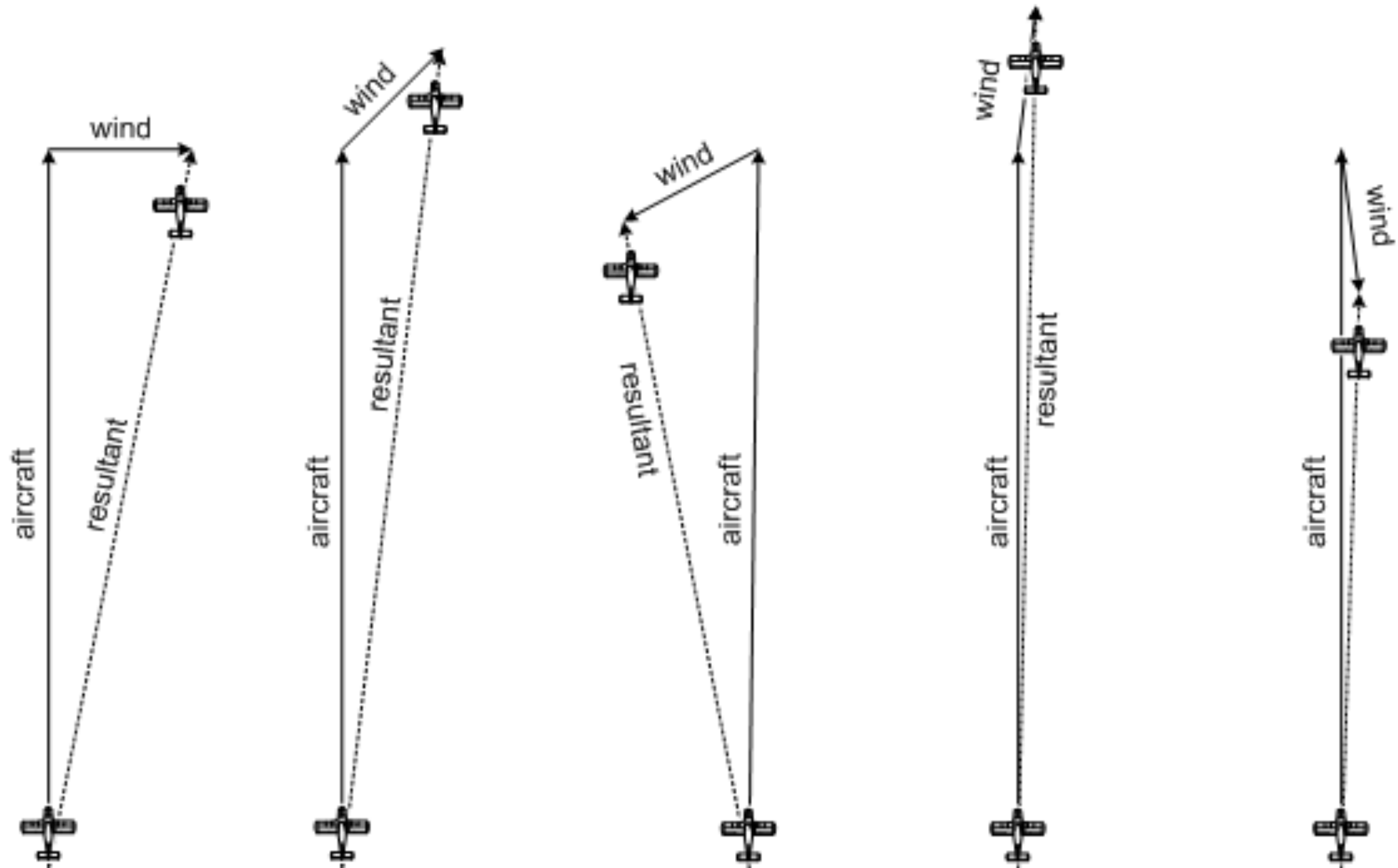
True Airspeed

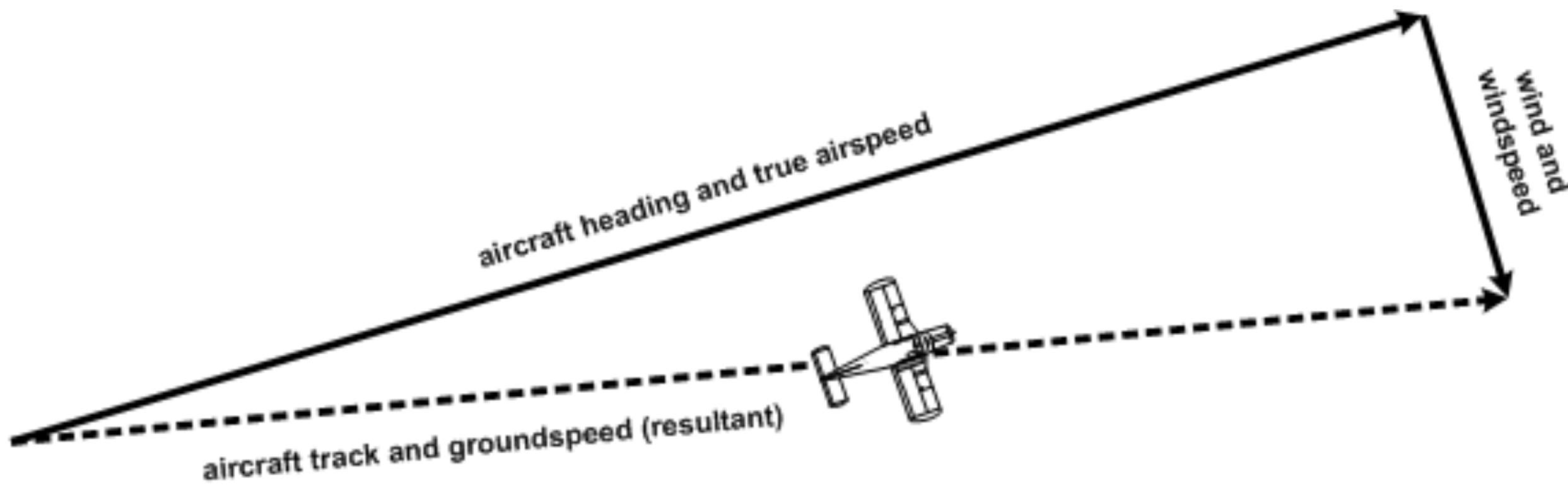
- Indicated
- Calibrated
- True
- Temperature in C
- Pressure Altitude
- Indicated Airspeed

5000' PA, T= 41F, IAS = 130Kts

POH, IAS = CAS - 3 Knots

Wind Problems





- Place wind direction under true index
- Mark wind velocity up from center
- Place true course under true index
- Slide wind velocity to TAS line
- Read GS under center
- Read WCA between CL and WV mark

- Winds 270 - 25 Knots
- True Course: 030
- True Airspeed: 135 Knots

- Winds 210 - 15 Knots
- True Course: 330
- True Airspeed: 125 Knots

Actual Winds Aloft

- Heading: 330
- Course: 340
- 20 minutes to travel 30 miles
- TAS: 130

Actual Winds Aloft

- Heading: 020
- Course: 025
- 13 minutes to travel 35 miles
- Pressure Altitude: 8000 feet
- Temperature: -5C
- 125 KCAS

Conversions

- Statute to Nautical
- Kilometers to Statute or Nautical Miles
- Pounds into Kilograms
- Fuel Pounds into Gallons