


# Physics 231 - 29-Oct-99



- Announcements
- Temperature
  - Temperature Scales
  - Thermodynamic Temperature
- Thermal Expansion
  - Linear Expansion
  - Volume Expansion
- Quiz

# Temperature



- Fahrenheit Scale
- Celsius Scale
- Thermodynamic (Kelvin) Scale

# Thermal Expansion



- Linear Expansion

- Volume Expansion

Q1 - Answer = c

Q2 - Problem A - Last name A-K

Nitrogen boils at a temperature of  $-320^{\circ}\text{F}$ . What is this temperature in kelvins (K)?

- A. -47
- B. -160
- C. 113
- D. 95
- E. 77

Q1 - Answer = c

Q2 - Problem B - Last Name L-Z



- Dry ice ( $\text{CO}_2$ ) freezes at 194 K (kelvins). What is this temperature in  $^{\circ}\text{F}$ ?

A. -79

B. -142

C. 291

D. -47

E. -110

V<sub>1</sub>