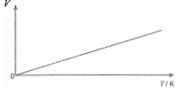
4.4.2 Charles' Law

For a gas of fixed mass, the **volume** is directly proportional to its **absolute temperature** if the pressure is constant. v_{\perp}





where $V = \text{volume of the gas } [\text{m}^3]$

T = absolute temperature of the gas [K]

4.4.3 Pressure Law

For a gas of fixed mass, the **pressure** is directly proportional to its **absolute temperature** if the volume is constant.

$$\frac{P}{T} = k$$

$$\frac{P_1}{T_1} = \frac{P_2}{T_2}$$



where $V = \text{volume of the gas } [\text{m}^3]$

T = absolute temperature of the gas [K]

4.4.4 Universal Gas Law

Combining all three gas laws:

$$\frac{PV}{T} = k$$

$$\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$$

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