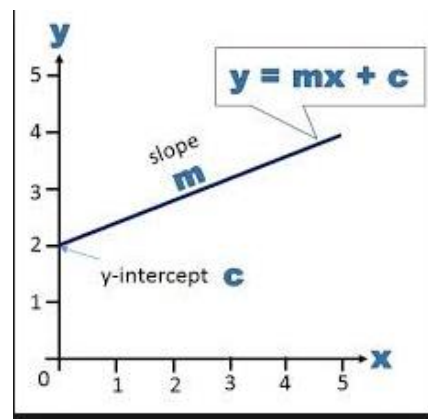
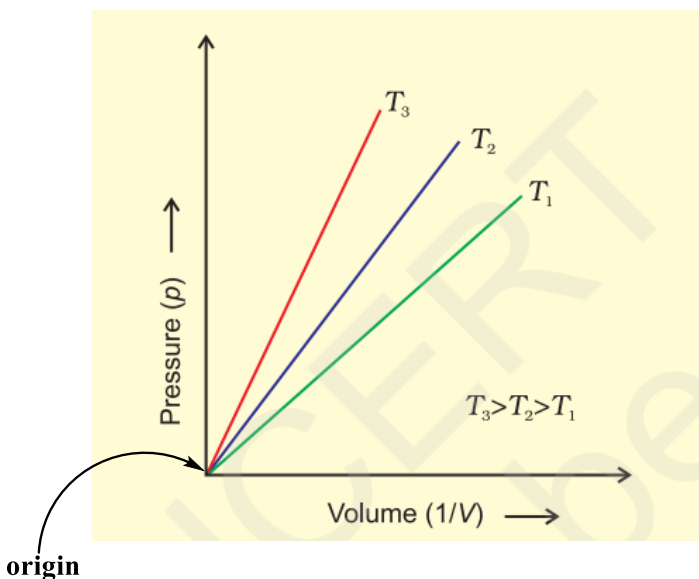


## Graph of pressure of a gas, $p$ vs. $1/V$



straight line equation

$$p \propto 1/V$$

$$PV = K$$

Plot represents the graph between  $p$  and  $1/V$  is a straight line passing through origin. However at high pressures, gases deviate from Boyle's law and under such conditions a straight line is not obtained in the graph

intercept (where the graph crosses the y-axis)