

(1662) Boyle חוקים : Boyle-Mariotte חוקים (Boyle-Mariotte) $P \cdot V = \text{const}$ (4)
 Le חוקים $\Rightarrow$ V (empirically) $\Rightarrow$ $P \cdot V = \text{const}$ (1676) Mariotte!
 $-\frac{V}{P}$ $\int$ $\frac{1}{P}$, $\frac{dV}{V} = -\frac{dP}{P}$, $V(P)$ $\Rightarrow$ $P \cdot V = \text{const}$
 . $\frac{dV}{V} = -\frac{dP}{P}$ $\Rightarrow$ $\ln V = -\ln P + C$ $\Rightarrow$ $\ln PV = C$ $\Rightarrow$ $PV = C$

$$\frac{dV}{dP} = -\frac{V}{P} \Rightarrow \frac{dV}{V} = -\frac{dP}{P} \Rightarrow \frac{dV}{V} + \frac{dP}{P} = 0$$

$$\int \frac{dV}{V} + \int \frac{dP}{P} = C \Rightarrow \ln V + \ln P = C \Rightarrow \ln PV = C \Rightarrow$$

$$PV = C$$

