

# กฎของแก๊สอุดมคติ

(1)

$$\text{ดังนั้น } \frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad \text{เมื่อ } P \text{ คงที่}$$

$$\frac{V_1}{(27 + 273)} = \frac{V_2}{(77 + 273)}$$

$$\frac{V_1}{300} = \frac{V_2}{350}$$

$$\frac{V_2}{V_1} = \frac{350}{300}$$

$$\frac{V_2}{V_1} = 1.2$$





(3)

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$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$
$$\frac{P_1}{T_1} = \frac{P_2}{T_2} \quad \text{120 N/m}^2$$

$$\frac{3 \times 10^5}{(27 + 273)} = \frac{P_2}{(177 + 273)}$$

$$P_2 = 450 \left[ \frac{3 \times 10^5}{300} \right]$$

$$P_2 = 4.5 \times 10^5 \text{ N/m}^2$$

HA

