























Combined Gas Law

$$p_1V_1 = p_2V_2$$

Boyle's Law

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}$$

Charles' Law

$$\frac{p_1}{T_{\cdot}} = \frac{p_2}{176}$$

Gay-Lussac's

Combined Gas Law

$$p_1V_1=p_2V_2 \\$$
 Boyle's Law

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}$$

$$\frac{p_1 V_1}{\text{\tiny Charles'} T_{\text{\tiny LPW}}} = \frac{p_2 V_2}{T_2}$$

$$\frac{p_1}{T_1} = \frac{p_2}{T_2}$$

Gay-Lussac's Law

Combined Gas Law

STP = Standard Temperature and Pressure

A hot air balloon has a Volume of 400 L when the temperature is 20°C and the pressure is 360 mm Hg

What is its volume at STP?



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p₁V₁ p₂V₂ (300 mm Hg)(400L) 760 f

= 147 L

















