

zad. 32.3

$$t_N = 27^\circ\text{C} \Rightarrow T_N = 300 \text{ K}$$

$$t_{\text{He}} = 127^\circ\text{C} \Rightarrow T_{\text{He}} = 400 \text{ K}$$

$$E_N = \frac{5}{2} kT_N$$

$$E_{\text{He}} = \frac{3}{2} kT_{\text{He}}$$

$$\frac{E_N}{E_{\text{He}}} = \frac{\frac{5}{2} kT_N}{\frac{3}{2} kT_{\text{He}}}$$

$$\frac{E_N}{E_{\text{He}}} = \frac{5}{3} \frac{T_N}{T_{\text{He}}}$$

$$\frac{E_N}{E_{\text{He}}} = \frac{5 \cdot 300 \text{ K}}{3 \cdot 400 \text{ K}}$$

$$\frac{E_N}{E_{\text{He}}} = \frac{5 \cdot 3}{3 \cdot 4}$$

$$\frac{E_N}{E_{\text{He}}} = \frac{5}{4}$$