

物 理

I — **解答** (1) $\frac{F_0}{M}$ (2) $\frac{mF_1}{M+m}$ (3) $\sqrt{\frac{2L(M+m)}{F_1}}$ (4) $\sqrt{\frac{2F_1L}{M+m}}$
 (5) $\frac{F_2}{(M+m)g}$ (6) $\frac{F_3-3\mu mg}{M}$ (7) $\sqrt{\frac{2L}{\mu g}}$ (8) $\frac{F_3L(F_3-3\mu mg)}{\mu Mg}$
 (9) $-\frac{2mL(F_3-3\mu mg)}{M}$

II — **解答** (1) v_1Bd (2) $\frac{(E+v_1Bd)Bd}{mg\sin\theta}$ (3) $\frac{Emg\sin\theta}{Bd}$
 (4) Cv_2Bd (5) $mg\sin\theta - IBd$ (6) CBd (7) $\frac{CBdmg\sin\theta}{m+CB^2d^2}$

III — **解答** (1) $\frac{2P_0Sh}{RT_0}$ (2) 2倍 (3) $5P_0Sh$ (4) 3倍 (5) $3P_0Sh$
 (6) 2倍 (7) $\frac{16}{5}$ 倍

IV — **解答** (1) $n_{12} = \frac{\sin\theta_i}{\sin\theta_r}$ (2) $n_{12} = \frac{n_2}{n_1}$ (3) 6.3cm (4) $\theta_2 = \theta_1$
 (5) $n_L = 1.3$ (6) 10cm (7) $\theta_u \leq 39^\circ$ (度)