

2023 年度 一般選抜（2 月 9 日）

物理

1

解答

$$\begin{aligned} (1) & \sqrt{v_0^2 - 2gr} & (2) & \sqrt{2gr} & (3) & \frac{\sqrt{v_0^2 - 2gr}}{g} & (4) & \frac{v_0^2 - 2gr}{2g} \\ (5) & 0 & (6) & \frac{m}{m+M}v_0 & (7) & \sqrt{\frac{M}{m+M}v_0^2 - 2gr} & (8) & \frac{1}{g}\sqrt{\frac{M}{m+M}v_0^2 - 2gr} \\ (9) & x_C + \frac{2mv_0}{(m+M)g}\sqrt{\frac{M}{m+M}v_0^2 - 2gr} \end{aligned}$$

2

解答

$$\begin{aligned} (1) & \frac{4}{3}L & (2) & \frac{2L}{3t_1} & (3) & \frac{1}{2t_1} & (4) & \frac{3}{2}t_1 & (5) & 2A \\ (6) & 3 \text{ 個} & (7) & \text{—} \text{イ} & (8) & 7 \text{ 個} & (9) & \frac{19}{90}L & (10) & 4L \end{aligned}$$