

$$\textcircled{1} \quad \frac{1}{2} \times \gamma \times \left(\frac{v-v_0}{\gamma} \right)^2 + v_0 \times \frac{v-v_0}{\gamma} + x_0$$

$$\textcircled{2} \quad v^2 - v_0^2 = 2\gamma(x - x_0)$$