

(c)

$(10) z_0 = \sqrt{\frac{2y_0}{g}}, \quad y = at + bt^2$
 $L = \frac{1}{2}m\dot{y}^2 + mgy \quad \dot{y} = a + 2bt$
 $\quad \quad \quad \quad \quad \ddot{y} = 2b$
 $I = \int_0^{t_0} L dt, \quad \delta I = 0 \Rightarrow$

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{y}} \right) - \frac{\partial L}{\partial y} = 0$
 $m\ddot{y} - mg = 0, \quad \ddot{y} = +g \equiv 2b$
 $\Rightarrow \boxed{b = \frac{+g}{2}}$

$\ddot{y} = +g$
 $\dot{y} = +gt + a$
 $y = +\frac{1}{2}gt^2 + at + C$

10 pts
 when $y=0, t=0, \dot{y}=0$ when $y=y_0, t=t_0$
 $t=0, y=0, 0=C \Rightarrow \boxed{C=0}$
 $t=0, \dot{y}=0 = g \cdot 0 + a \Rightarrow \boxed{a=0}$
 $t=t_0, y=y_0 = \frac{1}{2}gt_0^2 \Rightarrow z_0 = \sqrt{\frac{2y_0}{g}}$
 $\quad \quad \quad = bt_0^2$
 $\Rightarrow \boxed{b = \frac{1}{2}g}$

$\Rightarrow \boxed{y = \frac{1}{2}gt^2}$

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