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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $v^2 \, m \, c \, g \, dt \, dv = ? \, d$. Multiply both sides by $m/c \, dv$. $v^2 \, c \, m \, dt \, dv \, c \, m \, d = ?$. Define $a = mg/c$. $a \, v^2 \, dt \, dv \, c \, m \, d = ?$. Integrate by separation of variables, $dt \, m \, c \, a \, v \, ? \, dv = ? \, d \, ? \, ?$.

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