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

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