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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/cd . $gv^2 \, c \, m \, dt \, dv \, c \, m \, dd \, =?$. Define $a = mg \, /cd$. $a^2v^2 \, dt \, dv \, c \, m \, d \, =?$. Integrate by separation of variables, $dt \, m \, c \, a \, v \, ? \, dv=?d \, 2 \, ??$.

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