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

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