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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 J $dv = Jd$ $2 - 2$.

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