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1.1 You are given the following differential equation with the initial condition, $v(0) = 0$, $v^2 \, dv = -c \, dt$. Multiply both sides by dv/c to get $dv = -c \, dt$. Define $a = m \, g/c$ and $b = c$. Integrate by separation of variables, $dv/c = -dt$. Therefore, the integration yields $v = \sqrt{\frac{a}{b}} \tanh \left(\sqrt{ab} \, t \right)$.

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