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1.1 You are given the
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equation with the initial condition, $v(t=0) = 0$, $c \frac{dv}{dt} = mg - \frac{c}{m} v^2$. Multiply both sides by $\frac{m}{c} \frac{dv}{v^2}$. Define $a = \frac{mg}{c}$. $\frac{m}{c} \frac{dv}{v^2} = a - \frac{c}{m} v^2$. Integrate separation of variables, $\frac{dv}{v^2} = \frac{c}{m} (a - \frac{c}{m} v^2) dt$. A table of integrals can be consulted to find that $\int \frac{dx}{x^2 + a^2} = \frac{1}{a} \tanh^{-1} \frac{x}{a}$. Therefore, the integration yields $\frac{1}{v} = \frac{c}{m} \tanh^{-1} \dots$

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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$,

$$m \frac{dv}{dt} = mg - cv^2$$

Multiply both sides by m/c . $gv^2 = c \frac{m}{d} \frac{dv}{dt} = ?$. Define $a = mg/c$. $a^2 v^2 = dt \frac{dv}{c \cdot m} = ?$. Integrate by

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separation of variables,
 $dt m c a v ? dv=?d^2 ?2.$

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