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

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