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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  $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$ .  
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