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Multiply both sides $m \frac{dv}{dt} + g v^2 = m g$

Define $a = \frac{m g}{c}$, $b = \frac{m g}{c}$

Integrate separation of variables, $\int \frac{dv}{a + b v^2} = \int \frac{dt}{m}$

A table of integrals can be consulted to find that $\int \frac{dx}{1 + x^2} = \tan^{-1} x + C$

Therefore, the integration yields $\frac{1}{\sqrt{a}} \tan^{-1} \left(\frac{v \sqrt{a}}{m} \right) = \frac{g}{m} t + C$

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