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 $a = mg/c$. $m \frac{dv}{dt} = a - cv^2$. Integrate separation of variables, $\int \frac{dv}{a/c - v^2} = \int \frac{dt}{m}$. A table of integrals can be consulted to find
that $\int \frac{dx}{a^2 - x^2} = \frac{1}{2a} \tanh^{-1} \frac{x}{a}$. Therefore, the integration yields $\frac{1}{2a} \tanh^{-1} \frac{cv}{a} = \frac{t}{m} + C$...

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