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Multiply both sides $m \frac{dv}{m} = \frac{m g - v^2}{c} dt$
Define $a = \frac{m g}{c}$
 $a^2 = \frac{m g^2}{c^2}$
Integrate separation of variables, $\frac{dv}{a^2 - v^2} = \frac{c}{m} dt$
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 $\frac{1}{2a} \tanh^{-1} \frac{v}{a} = \frac{c}{m} t$...

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