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A table of integrals can be consulted to find that $\int \frac{dx}{1 + \tanh^2 x} = \frac{1}{2} \ln \left| \frac{1 + \tanh x}{1 - \tanh x} \right| + C$.
Therefore, the integration yields $\frac{1}{2} \ln \left| \frac{1 + \tanh x}{1 - \tanh x} \right| + C$...

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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$, $m \frac{dv}{dt} = mg - cv^2$. Multiply both sides by m/c . $gv^2 = m \frac{dv}{dt} - cv^2$. Define $a = mg/c$. $a^2 v^2 = m \frac{dv}{dt} - cv^2$. Integrate by separation of variables, $\int \frac{dv}{a^2 - cv^2} = \int \frac{dt}{m}$.

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1. Numerical analysis—Data processing. 2. MATLAB. I. Cao,

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