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

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Define $a = mg/cd$. $a^2 v^2 dt = dv/c$ $m dt = -\frac{2v}{c} dt$. Integrate by separation of variables, $dt = -\frac{c}{2v} dv$ $dv = -\frac{c}{2v} dt$.

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