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

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