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m/cd. $gv^2 c m dt dv c m dd = ?$. Define $a = mg / cd$. $a2v^2 dt dv c m. d = ?$. Integrate by separation of variables, $dt m c a v ? dv = ?d^2 ?^2$.

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

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