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c d Define a mg c d m dv a2 v2 c d dt Integrate separation of variables, dv cd a 2 v 2 m dt A table of integrals can be consulted to find that  $\int \frac{1}{1+x^2} dx = \tan^{-1} x + C$ . Therefore, the integration yields  $\frac{1}{2} \ln \left| \frac{v+2}{v-2} \right| + C$  ...

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