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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 $\int \frac{1}{1+x^2} dx = \arctan x + C$ Therefore, the integration yields $\frac{1}{2} \ln \left| \frac{1+x}{1-x} \right| + C$...

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