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Multiply both sides $m \, dv$

$m \, g \, dt = m \, dv$
 $g \, dt = dv$
Integrate separation of variables, $\int g \, dt = \int dv$
A table of integrals can be consulted to find that $\int \frac{1}{1+x^2} dx = \arctan x + C$
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