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 $m \frac{dv}{dt} = -d$. Define $a = mg/cd$. $a^2 v^2$
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 $d dt c d$ Define $a = mg / c$
 $dm dv = a^2 - v^2 c$
 dt Integrate by separation
of variables, $dv cd f a^2 - v$
 $2 = \int m dt a$ table of

integrals can be consulted to find that $\int a^2 dx = \dots$

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