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the following

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equation with

the initial

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condition, $v(t=0) = 0$, $c = \frac{dv}{dt}$ Multiply both sides by m $\frac{dv}{dt} = \frac{c}{m} \frac{d}{dt} \left(\frac{1}{2} m v^2 \right)$ Define $a = \frac{mg}{m} = g$ $\frac{dv}{dt} = \frac{a}{v^2} \frac{d}{dt} \left(\frac{1}{2} m v^2 \right)$ Integrate separation of variables, $\frac{dv}{a} = \frac{cd}{2v^2} \frac{d}{dt} \left(\frac{1}{2} m v^2 \right)$ A table of integrals can be consulted to

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Numerical $2 \, dx \, x$

$1 \, \tanh^2 a \, a$

Therefore, the

integration

yields $1 \, v \, c$

$\tanh \dots$
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following
differential
equation with
the initial
condition, $v(t=0) = 0$, $v^2 m c g$
 $\frac{dv}{dt} = ?d$.

Multiply both
sides by m/cd .
 $gv^2 c m dt dv c$
 $m dd = ?$. Define
 $a = mg /cd$. a^2v^2
 $\frac{dv}{dt} c m. d = ?$.
Integrate by

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separation of
variables, dt m
c a v ? $dv = ?d^2$
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