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You are given

the following

differential

equation with

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the initial

condition, $v(t$

$0) = 0$, $c \frac{dv}{dt} = g$

$v^2 = dt \cdot m$ Multiply

both sides $m \frac{dv}{dt}$

$m \cdot g \cdot v^2 = c \cdot d \cdot dt$

d Define $a = mg$

$d \cdot m \cdot dv = a^2 \cdot v^2 \cdot c \cdot d$

dt Integrate

separation of

variables, $dv = cd$

$a^2 \cdot v^2 \cdot m \cdot dt$ A

table of

integrals can be

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consulted to

find that $2 \frac{dx}{x}$

$1 \tanh^2 a$

Therefore, the

integration

yields $1 v c$

$\tanh \dots$

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given the 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 .
 $\frac{dv}{dt} = -\frac{d}{c} m$. Define
 $a = mg/cd$. $\frac{dv}{dt} = -\frac{d}{c} m$.

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Integrate by
separation of
variables, $dt = m$
 $c a v \int dv = \int d^2$
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