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. 1 CHAPTER 1 1.1 You
are given the following
differential equation
with the initial
condition, $v(t = 0) = 0$,
 $v^2 \text{ m c g dt}$

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given the following
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with the initial

condition, $v(t=0) = 0$, c

$\frac{dv}{dt} = g - \frac{c}{m} v^2$ Multiply

both sides $m \frac{dv}{dt} = m g - c v^2$

$\frac{c}{m} \frac{dv}{dt} = \frac{c}{m} g - \frac{c}{m} v^2$ Define a $\frac{dv}{dt} = g - \frac{c}{m} v^2$

$\frac{dv}{g - \frac{c}{m} v^2} = dt$

Integrate separation of

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variables, $dv = cd a^2 v^2$

Method With
m dt A table of
integrals can be
consulted to find that $\int \frac{1}{1+x^2} dx = \tan^{-1} x + C$

Therefore, the
integration yields $\ln |v| = \frac{1}{2} \ln |c| + C$

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