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University CHAPTER 1

1.1 You are given the
following differential
equation with the initial
condition, $v(t=0) = 0$, $c \frac{dv}{dt} + mg = m \frac{dv}{dt}$
Multiply
both sides $m \frac{dv}{dt} = m g - c v^2$

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Define a mg c

$d m dv a^2 v^2 c d dt$

Integrate separation of variables, $dv cd a^2 v^2$

m dt A table of integrals

can be consulted to find

that $2 dx x 1 \tanh 2 a a$

Therefore, the

integration yields $1 v c$

$\tanh \dots$

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1.1 You are given the following differential equation with the initial condition, $v(t=0) = 0$,
$$m \frac{dv}{dt} = mg - cv^2$$

Multiply both sides by m/c .
$$\frac{m^2}{c} \frac{dv}{dt} = \frac{m^2 g}{c} - mv^2$$

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

Integrate by separation of variables,
$$\frac{m^2}{c} \int \frac{dv}{a - mv^2} = \int dt$$

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