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Multiply both sides $m \frac{dv}{dt} + \frac{1}{2} m v^2 = c \frac{dv}{dt}$

Define $a = \frac{mg}{c}$, $m \frac{dv}{dt} + \frac{1}{2} m v^2 = a \frac{dv}{dt}$

Integrate separation of variables, $\int \frac{dv}{a - \frac{1}{2} v^2} = \int \frac{cd}{m} dt$

A table of integrals can be

consulted to find that $2 dx \times 1 \tanh 2 a a$
 Therefore, the integration yields $1 v c$
 $\tanh \dots$ Solution Manual - Applied
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 You are given the following differential
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 $0) = 0$, $v^2 m c g dt dv = -d$. Multiply
 both sides by m/cd . $gv^2 c m dt dv c m$
 $dd = -$. Define $a = mg /cd$. $a^2v^2 dt dv c$
 m . $d = -$. Integrate by separation of
 variables, $dt m c a v \int dv = \int d 2$
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ODE: mynonlinheat.m: Lecture 35:

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myheat.m: Lecture 36: Solution

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