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Multiply both  
sides  $m \frac{dv}{dt} = mg - v^2$   
Define  $a = \frac{mg}{c}$   
 $d = \frac{m}{c}$   $dv = a^2 \frac{v^2}{v^2}$

$c \frac{dv}{dt}$   
Integrate  
separation of  
variables,  $\frac{dv}{v^2} = \frac{a}{d} \frac{dt}{v^2}$   
A table of  
integrals can  
be consulted  
to find that  $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$   
Therefore,  
the  
integration  
yields  $\frac{1}{v} = \frac{a}{c} t + C$   
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