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initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = g - d v^2$

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$m$  Multiply both sides  $m \, dv = m \, g \, v^2 \, c \, dt$   
 $c \, d$  Define  $a = m \, g \, c \, d \, m \, dv = a^2 \, v^2 \, c \, d$   
 $dt$  Integrate separation of variables,  $dv$   
 $cd = a^2 \, v^2 \, m \, dt$  A table of integrals can  
be consulted to find that  $\int \frac{dx}{x^2} = -\frac{1}{x} + C$   
 $\frac{1}{2} \ln \left| \frac{1+x}{1-x} \right| + C$   
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