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initial condition,  $v(t=0) = 0$ ,  $c \frac{dv}{dt} = mg - c v^2$   
Multiply both sides  $m \frac{dv}{dt} = mg - c v^2$   
Define  $a = \frac{mg}{c}$ ,  $\frac{dv}{dt} = a - v^2$   
Integrate separation of variables,  $\int \frac{dv}{a - v^2} = \int \frac{dt}{1}$   
A table of integrals can be consulted to find that  $\int \frac{dx}{1 - x^2} = \frac{1}{2} \ln \left| \frac{1+x}{1-x} \right| + C$   
Therefore, the integration yields  $\frac{1}{2} \ln \left| \frac{1+v/a}{1-v/a} \right| = t + C$  ...

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where the first term to the right of the

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equal sign is the general solution and the second is the particular solution.

For our case,  $v(0) = 0$ , so the final solution is  $(\frac{1}{m})e^{-ct} + \frac{mg}{c} (1 - e^{-ct}) = ? ?$

(b) The numerical solution can be implemented as  $(0) \quad 2 \quad 19.62 \quad 68.1 \quad 12.5$   
 $(2) \quad 0 \quad 9.81 \quad ? = ? ? ? ? ? \quad v = + ? (19.62)$   
 $2 \quad 6.2087 \quad 68.1 \quad 12.5 \quad (4) \quad 19.62 \quad 9.81 \quad ? =$   
 $? ? ? ?$

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