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CHAPTER 1 1.1 You are given the following differential equation with the initial condition,  $v(t = 0) = 0$ ,  $v^2 = m c$   
 $g \frac{dv}{dt} \dots$  The numerical solution can be implemented as (0) 2 19.62

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CHAPTER 1 1.1 You are given the following differential equation with the initial condition,  $v(t = 0) = 0$ ,  $c \frac{dv}{dt} =$   
 $g \hat{v}^2 \frac{dv}{dt} = m$  Multiply both sides by  $m/cd$   $m \frac{dv}{dt} = g \hat{v}^2 c d$  Define  $a = mg / c d$   $m \frac{dv}{dt} = a \hat{v}^2 c d$

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