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$dv = m g v^2 c d dt$  Define  $a = mg c d m$   
 $dv = a^2 v^2 c d dt$  Integrate separation of  
variables,  $dv cd a^2 v^2 m dt$  A table of  
integrals can be consulted to find that  $2$   
 $dx = x^{-1} \tanh^2 a a$  Therefore, the  
integration yields  $1/v c \dots$

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