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different methods for

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Solving this problem: (1)  
separation of variables, and  
(2) Laplace transform.  $g \int v dv$   
 $c dt = m$  Separation of  
variables: Separation of  
variables gives  $g \int c v dv = dt$   
 $1/m$  The integrals can be  
evaluated as  $c \ln g v m t C$



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$C/m$  where  $C =$  a constant of  
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