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- (1) separation of variables, and
- (2) Laplace transform.

$g \frac{dv}{dt} = c$

Separation of variables: Separation of variables gives  $g \frac{dv}{dt} = c$

of variables gives  $g \frac{dv}{dt} = c$

$v \frac{dv}{dt} = \frac{c}{m}$

The integrals can be

evaluated as  $c \ln g v$

$m t = C \frac{c}{m}$  where  $C = a$

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