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1.1 You are given the following differential equation with the initial condition,  $v(t=0) = 0$ ,  $v^2$   $m$   $c$   $g$   $dt$   $dv = -d$ . Multiply both sides by  $m/cd$ .  $gv^2$   $c$   $m$   $dt$   $dv$   $c$   $m$   $dd = -d$ . Define  $a = mg/cd$ .  $a^2v^2$   $dt$   $dv$   $c$   $m$ .  $d = -$ . Integrate by separation of variables,  $dt$   $m$   $c$   $a$   $v$   $dv = -d$   $2$   $-2$ .

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