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$m c g dt dv = - d$ .

Multiply both sides by

$m/cd$ .  $gv^2 c m dt dv c m$

$dd = -$ . Define  $a = mg$

$/cd$ .  $a^2v^2 dt dv c m. d$



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= - . Integrate by  
separation of variables, dt  
 $m c a v \quad dv = d^2 - 2.$

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