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Therefore, the
integration yields $v = c \tanh \dots$

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 $m c g dt dv = - d.$

Multiply both sides by
 $m/cd. gv^2 c m dt dv c m$

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$dd = - \frac{a}{c} \frac{a^2 v^2}{dt} dv$. Define $a = mg$
 $/cd$. $a^2 v^2 dt dv c m$. d
 $= - \frac{a}{c} \frac{a^2 v^2}{dt} dv$. Integrate by
separation of variables, dt
 $m c a v dv = d^2 - 2$.

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