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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 . $gv^2 c m dt dv c m dd = ?$. Define $a = mg /cd$. $a^2 v^2 dt dv c m. d = ?$. Integrate by separation of variables, $dt m c a v ? dv = ?d^2 ?2$.

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