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

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