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$$\text{equation } f(i,n+1)=f(i,n)-0.5*c*(f(i+1,n)-f(i-1,n))+0.5*c**2*(f(i+1,n)-2.0*f(i,n)+f(i-1,n))$$

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1.1 You are given the following
differential equation with the initial
condition, $v(t=0) = 0$, $v^2 \text{ m c g dt dv} = \square \text{d}$.

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

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