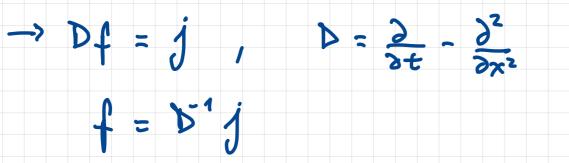
ShortGreen's functionTakesfor diffusion in 1D331Part 2

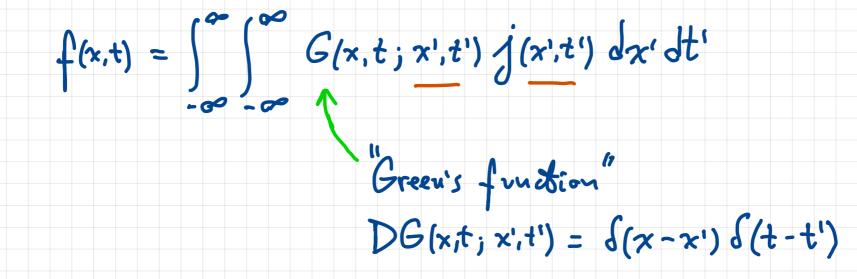


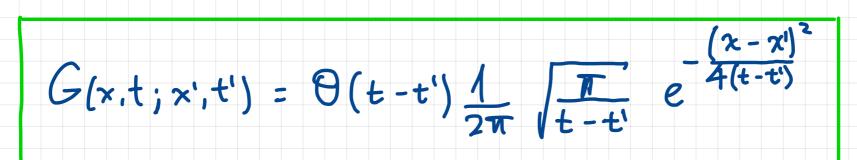
Green's function for diffusion in 1D. Part 2.

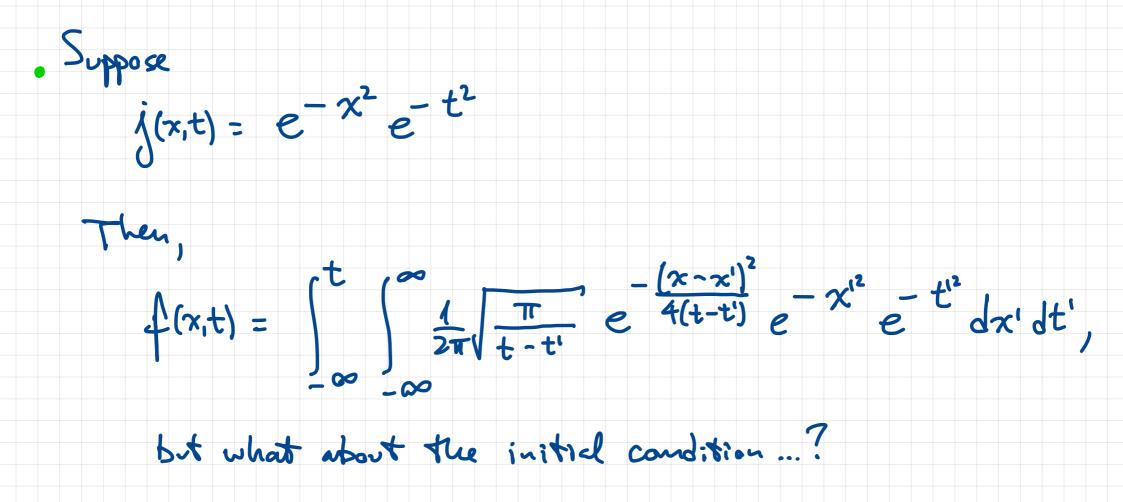
· Last time : inhomogeneous diffusion eq.

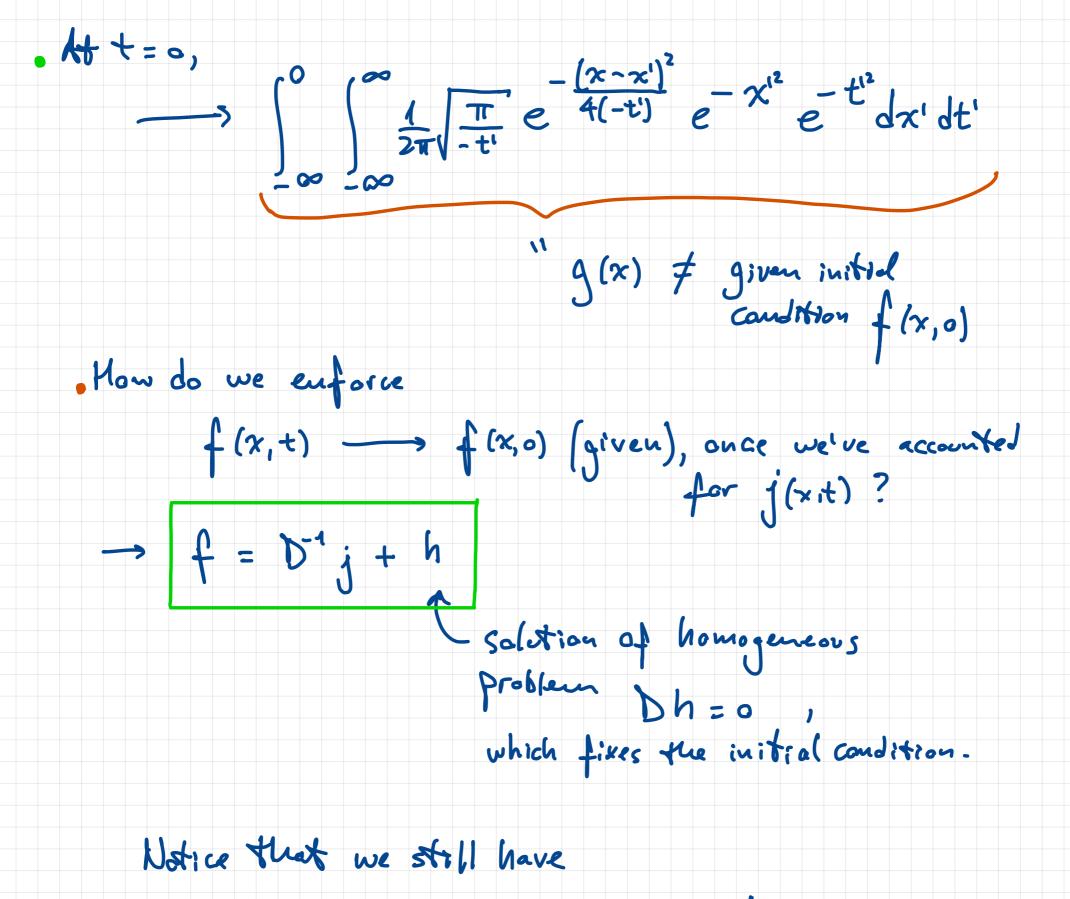
<u>df</u> - <u>d</u>²f = j(x,t) iuhomogeneity (driving the system; usually given)











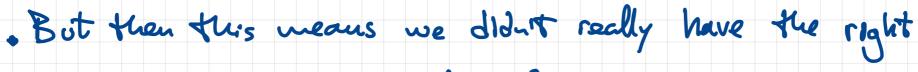
Notice that we still have

 $Df = DD'_j + Dh = j$

Now, at t=0, $f(x,t) \rightarrow g(x) + h(x,o) \stackrel{v}{=} f(x,o)$

-> h(x,t) = Solution of Dh=0







(Notte we ignored the initial condition entirely when building G.)

This is at - it's just a reflection of the fast that the kernel of D is nontrivial:

Df = 0 has nontriviel solutions which depend on the initial and boundary conditions.

