

Now: add derivatives Consider: Du + N(u, L) = 0

Lunknown or data

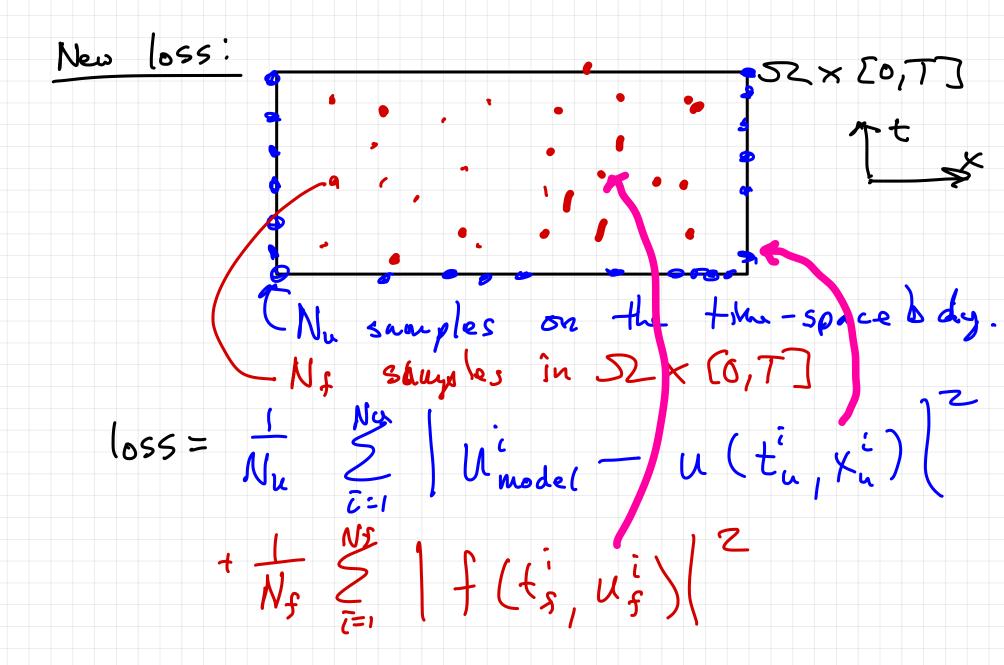
non/wear differential op. x esz 4 6 60,73 Example or Diuxx U = + UUX = 0 u(x, o) = - sih(x)I.C. u(-1,t) = u(1,t) = 0B. C. (DFOC Some), can-we find a? (2) For some data, which ?? PINN:

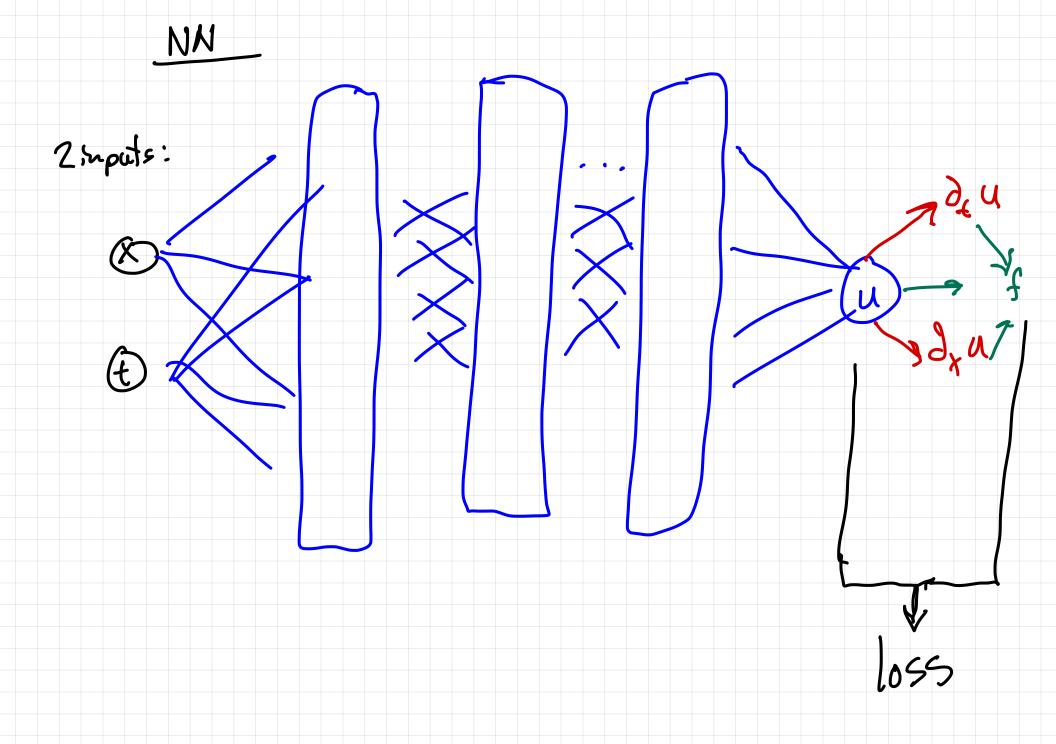
Find u, f such that u(-1,t) = u(1,t) = 0  $u(x, \delta) = -\sin(x)$ 

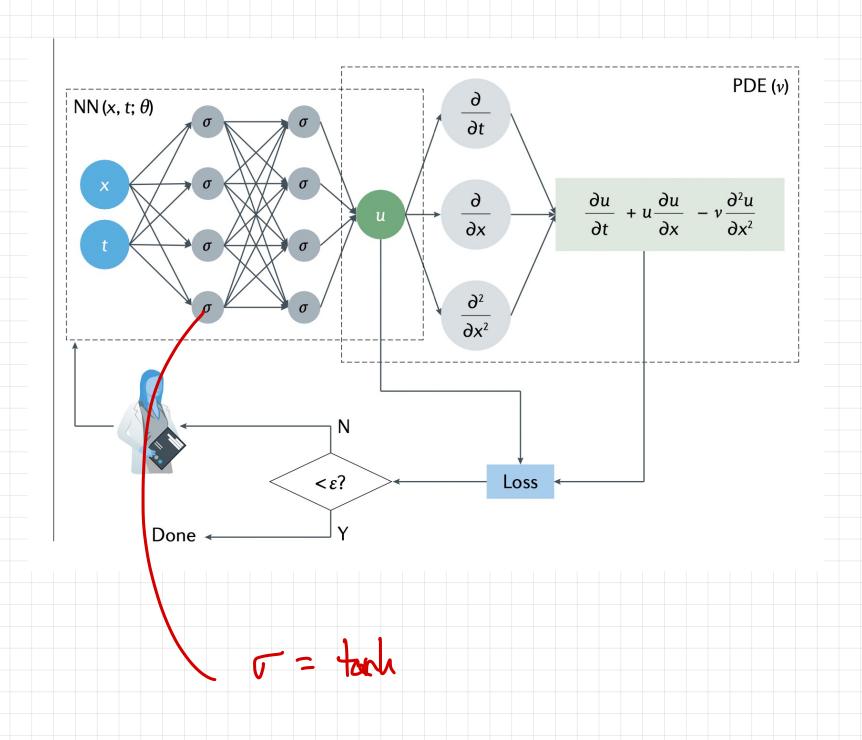
 $f = u_{+} + uu_{\times} = 0$ 

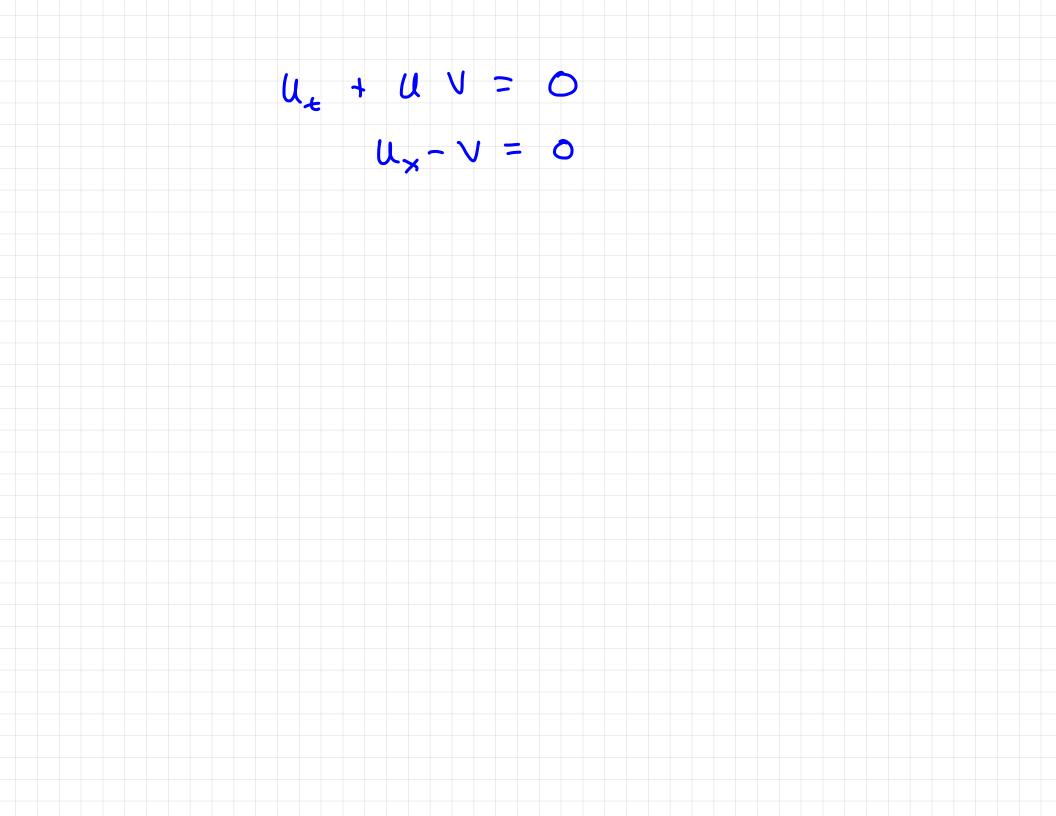
B.C.

Tic.









$$u_{+} + uu_{x} = 0$$
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