IG 2407 Jun 2023 96 k samples = 1980 k hib Yes becomes. Fe: 96/2Hz> 28 marc .: 40 KHz. 9: 220= Ps. 9. 8MR: 6,02 ×N + 4,77 - Fe = 120,40 + 4,77 - 3 = 122,17 JB B) DFT requires N. multiplications
The computational look is The D87 should connic N2 PNL + N2NALL. / Te. NA: (10242 MNL + 10242 ADD) \*FE

1

By Moving from DFT Lo IFFT N2-N N Log, (N) (N) 2601 K (1-2-1P3) (1-2-1P3) 1 - 2 Re(po) 2-1+ Po/2-1-122-1+12-2 Filter with poli => IIR. 1-122-1-12-2 - x(n) + 12 y(n-1)-=24(n-2)

<del>Joanne aveo Gamogami</del>

4) Yes as 4(n) is function of parisions samply s) H(f) = H(z) /2: e)27/10 1- 12 e- ]2 11 frc+1 e- 34 11 frc. H4) Pe Z 8) x M) 7

6) No become  $r(yy)(1) \neq (20869)$ 7) Sy(1) = FT (r(yy)(1))  $= 40^{2} + 120^{2} co (2016Te)$   $= 40^{2} - 4120^{2} co (2016Te)$ 8)  $Sy(120) = 40^{2} - 4120^{2} co (311)$   $= 60^{2} + 160^{2} co (311) - 12$   $= 00^{2} + 160^{2} co (311) - 12$ 

(5)