Gercicios propuestos: 2) ? 47 = 1) 5 4-7? Si sgn (+) (-) 2 iw SA S(E)4->1 1672TS(-W) 1-59n(H) (-> - 3 5-14-32 Tolum 1 sgn(+) +7 iw 54->10 11 SCW 1 sgn(+) 6-> - J. to 1- 2 sgn(+) 6 to 3) cos 106 6>? Si SI+) 2>1 1672118(-w) cos 10t-1 6> 1 [21 (S(w+10) + S(w-10))] cos 10t (-> ITS(w+10)+ITS(w-10) 4) ? E> U(w) Ei6w So v(t) => TS(w)+ iw (1-u) (1-)

TT S(t) +1 472 TUGW

11 S(-t) +1 (-> 2 11 u(w) 1 S(-t)+1 (w)

15(-(+-6))+1 ~> \(\omega) \end{array}

1 S(6-6) + 1 -1211(+-6) (-7 v(w) = 16w

5) e · (t-1) (-)? Si eat ult) () atim e v(t) L-> _ ; e 2(t-1) (-> _ ! . e 2 tiw ; e 2tiw ; e 2tiw ; e 2tiw ; e 2tiw 6) Sa 5t E>? Si ACd(t) 47 AdSo and Ad Sa to 6->21 A (dfw); con d= 10 g t=1 1.10. sa 610 = 72T 1.C10 (-w) So St => I 40 (-w) 7) ? <>> S(2w-1) Si S(t) 67 1 S(t-1) => = 00 おしてもりとりとうで Le32 (-> 2TO(-(2w-1)) 1- e J = L > S(2w-1)

8) Cz(t-1)-Est 67? Si Aldt t> Ad Sq 2 A=1 y d=2 9) & sgn (26+1) <>? Si sgn(t) => Z sgn(26+1) 2> 2 . ein sgn(26+1) 2> 1. Z . ein 121 iz (-it)2 syn(26+1)4> di[= .e] -t2 sgn(Zt+1) 2) 02 [2 ... e)2 t² sgn(2€+1) L>_d² [²w[iw.e²] 10) £2 (>?; Si e (t) (-) 1 ; a = 10 1 (-j6)21 (-j6

8) CE (PH) : 50 F2 Si sgn (t) => = 10 = > 1.10 [synl-w) it to ZIT sgn(-w) 10 E>-10 Msgn (-w) e S. Z 6>1011 Sgal-w] 10 4> 10 11 sgn (-a) -1 10 t > 101 sgn(-w) 12) - Ze, -5+8+Z·e, 5t =>? 1 3 Si S(E) 471 1 Si S(+) =>1 -5-1 2-21011 St-w) 12>2156w) -547-10 HS(w) 16>2TS(w) -2.167-4118(w) -2.e (--)-411(w-5) B Si S(+) 4>1 8 = 7161TS(w) --(Si SIE) 27 -Ze -5+8+Ze 67-4T(W-5). -2 L-> 4 TI S(w) 2 e => 4 TI S(w-5) --10 TT Slw) + 16 TT Slw) + 4TT Slw-5) -

12T alzh Davit e 四八十五 VZT C tos 54 13) par 4

$$\frac{17}{6^{2}+106+25} = \frac{6+5}{6^{2}-25}$$

$$= \frac{(6+5)^{2}}{(6-5)(4+5)} = \frac{6+5}{6-5} = \frac{6+5}{6-5} = \frac{6+5}{6-5} = \frac{6+5}{6-5}$$

$$\frac{1}{6-5} = \frac{6+5}{6-5} = \frac{6+5}{6-5} = \frac{6+5}{6-5} = \frac{6+5}{6-5}$$

$$\frac{1}{6-5} = \frac{6+5}{6-5}$$

$$\frac{1}{6-5} = \frac{6+5}{6-5}$$

19)? 2-> 6etia sen(zw)
9+az Si e 161 -> 29 ; a=3 e 27 6 ; e 27 6 e 140 4+w2 [= 316+61 -316+21] (-76.e . sen 2w 20) F [28(w+8) +28(w-8)] (0) 8 6 6 > 4T[S(w+8) +S(w-8)] 2 cos 8 € 6-> 2 S (w+8) + 2 S (w-8)