Enyr 068 Commone No. 9 a) N(+) = 8c -5+ + >0-4 refer so laplace suble

8 - 5 + 415 3 8/5 + 5 1 b) w(+) = (10e-1000+ s) u(+) refor 4 10e-1000 + ust) - 1/5+1000 - 3 La partial Expansion = 105 - SCS+1000) S (S+1000) 6 55 -5000/ S(5+1000) C. Wes = e = + 4+ - UCH) + >0-1 45.3 - 1/2 + 1/2 - 1/2 / v(t) = 2 u(t) + 2 rin(2t) - 2 (os (2t), \$ 70-62(V(1) + sin(2+) - 2(0s(2+) = [2] 2 (3 + 3/2+4 - 5/2+4) 4 2(1/5 + 3/2+4 - 5/2+4) = 52 + 11 + 25 - 5/2 - (4 + 25) 5(52+4) 2. haplus purson y (+) = V, e-d+; va i a are positive = V, (s) - 1/s + a Leplace pura. 5 + VAE-XX Lx = 18.3 VA 5 C-XX tole is va (// / 26. i(+) = 300-1200+ u(+) 6.300-1200+ LS.3 30 (fle-1200+) U(+) in Given v(t) = 0.1 di(t) flt -01 [ di(t)] ; recent from table 1(H=1) 4 N(5) = 0. 15 T(5) = 15 = 30/ 5+1200 4 Thus, NISS = 35/5+1200V or de vas + 4 way + 3 v (r) + 5 c - 2+ 20-2 = -2v , dy = 2 % 11 ( de vas + y duch) + 3 V(+) = 5/5e-2+3 whate 105200 -5 N(0) - N'(0) + 4[ SU(31- N(0+)] + 3 Vs = 5+2 13 (52+45+3) V(S) + 25-2+8 =5/5+2 copunon 1, V(s) = 5/ (S+2)(S+1)(S+3) - 2(S+3)/ (S+2)(S+1)(S+3)

