Chris Hunt HW4 4.1) Find VL(+) gcross L, ENGR 202 Vs(t) = 10 sin (377+ +40°) = 10 cos (377+ -50°) = 10 L-50 w=377 Food DVs VL 810H = 1MF C, = 13770 1 Z= L/11C= (53770)(-52652.52) 2 = - 18948.71 52 VL=Va=Vs(=2,+2,) VL=104-50(.9877-j.1104) VL= 6.428 - 57.676 = 10.01 cos(377+ - 50.06°) v 4.7) Find I_z $I_z = I_s \left(\frac{z_1}{z_1 + z_2} \right) + (2s + j + 3.34) \left(\frac{50 + j + 3.7.7}{50 - j + 24.6.8} \right)$ 50/60° (A) 50.0 \$\frac{1}{7} = -366.3 \quad \tau_2 = -32.55 + 343.53 Z,= 50+537.71 Z=-566.3 IZ=54.3532-126.79A Is= 25-543.3

