Weizhe Gwo ELE 310 1. a) Fi.G(E, w) = 5 = 5 g(r, n) e i(k + + w n) dr rep. 17 G(F, w) e i(k + + w n) dr IF7: g(r, n) = 1 (211) 3 for G(F, w) e i(b = r + w n) dr dw. b). It's 50 dr = (27) 5 [6(k, w) H* (F, w) de du c). (271)3 [T] G(E', W') H(K-K', W-W) disdw'= G(EW)*H(E, W d) F+ {V*V} = (271)3 JTV | (271)3 JTV U(E', W') V(E-K', W-W') dE'd Lot B"= F- B' W" = W-W'. = (15th)3 / The U(+, W') ej(E'. T+Wn) dE'dw () · (=1)3 [To Sendo V(F", w")e) (F". T) + w"r) dF" dw") = Ulf. n). \$(P.n) = U.V e). In \(\frac{1}{2}\) \(\frac{1}\) \(\frac{1}{2}\) \(\frac{1}

h= t(-2008[x,y]+18[x+1,y+1]+48[x,y+1]+18[x-1,y+1]
+48[x+1,y]+48[x-1,y]+18[x+1,y-1]+48[x,y-1]
+1(1) + 18[x-1, y-1]) +13,22) [-1(w,, w,)= - (-20+4(z,+z,-1)+(z,+z,-1)+(z,+z,-1)+(z,+z,-1)+(z,+z,-1)+(z,+z,-1)+ = 2 (-20 + 8 (05(w)+ 805(W2)+2(05(W1+W2)+2005(W1-W2))