Alemoyeth Bogale Assignment 3 VCx,x)=1/2 mw2(x2+x2), K(p)= px+p2 E=(B,7)exp(=) didd Z= Se-EACT dp.dp.dxdy = Sexpl-1 (Px+Pb+ 1 mw262+3). = Sexp(-Px2) exp(-Px2) exp(-mwx2) exp(-mwx2) exp(-mwx2) dxdydpydx

2nkgT) exp(-Px2) exp(-mwx2) exp(-mwx2) dxdydpydx = JIDMKet JIDMKet JIDKOT JIDKOT JIZKOT ITZKOT TIZKOT MWZ MWZ 1211/6t)2 5 E(P, T) exp (Kgt (Px+Px2)/2m + Mw2(x2+22) didgop, by = 41743T3 + 2112K3T3 + 2112K3T3 + 2112K3T3 - 2112K3T3 -

DE TOWNS TOWNS TO THE

ECT) = Z Colo = Z En crot Z Coche

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Ectilitat Z coche - the Zerot Exot 7- (n+ 1/2) huy for V= 0 V=0 -6nB=-2 Bhw - In (1- e-hwb) = thw + hwerp(-Bhw)

2 1-exp(-Bhw) 1 + 1-1+βhw = hw[] + + 1 approximate
2 + -1-1+βhw heuzeKot