PHY 410
HW\# 9
Assigned: April 6, 2009: Due April 13, 2005
9.1 Problem \# 7.1 of the Text
9.2 Problem \# 7.2 of the Text
9.3 Problem \# 7.3 of the Text
9.4 Problem \# 7.5 of the Text
9.5 For the Fermi gas in two dimensions (see Problem 7.1 above) calculate the chemical potential $\mu$ as a function of $N / A$ and $\tau$. Discuss the low $\tau \ll \varepsilon_{F}$ and and high $\tau \gg \varepsilon_{F}$ temperature behavior of $\mu$.

