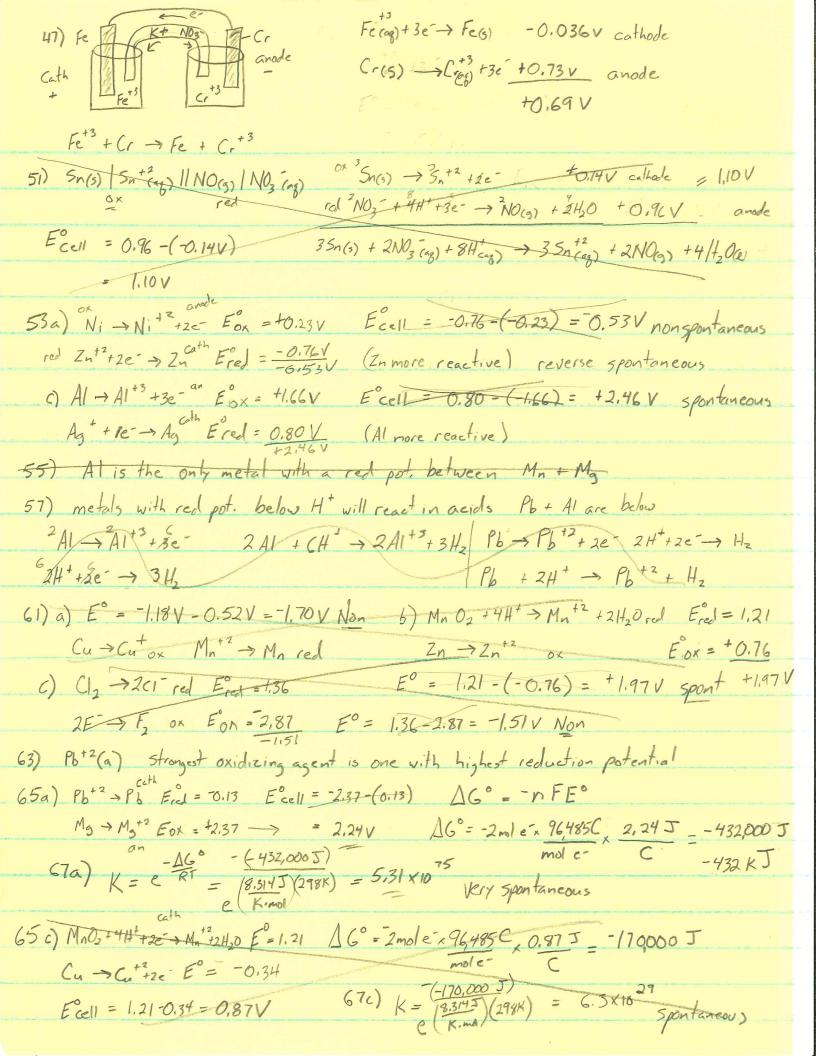
```
Ch20 Electrochemistry
 37e) Be+ BHag+ BrO3 (28) → Brag) + 3H20(1)
     acidic 3 N2 H4 (6) -> 3 N2(3) + 4 Hag) + 4e-
               2BrO3 (48) + 3N2H4(9) -> 2Br(48) + 6H20(2) + 3N2(9)
               2e+ 4H(ag) + PbO2(s) + Pb+2 + 2H20(2)
        acidic
                 2 I (ag) -> I2 (4) +2e-
              4H+(ag) + PbO2(s) + 2I(ag) > Pb (ag) + 2H2O(e) + I2(s)
                   2 1e-+2 C102 (ag) -> 2 C102 (ag) 2 H20(2)
  41 a)
               20H(4) + H2 O2 (ag) -> O2 (3) + (2H(ag) + 20H(ag)) + 2e-
  Basic
              2(102(ag) + 20H (ag) + H2O2(ag) -> 2(102(ag) + 02(g) + 2H2O(a)
           3e + 40Hag + 4H(ag) + Mn O4 (ag) > Mn O2 (s) + 2H2O(e) + 40Hag)
               40/4 + 4/20(e) + Al(s) -> Al(OH)4 (ag) + [4/4 + 40/6] + 3e-
             MnO4 (ag) + 2H2O(e) + Al(s) -> MnO2(s) + Al(OH)4 (ag)
       2 Aging + Pb(s) -> 2Ag(s) + Pb+3(s)
   a) red 2/4g (ag) +2e- > 2/4g (s) +0.80V anode
                                                                 cathode
         ox Pb(s) → Pb+2 +2e +0,13V
   C) O2(g) +4H(oq) +2Zn(s) →2H2O(1) +Zn(s)
rel 4e + 02(g) + 4Ht(ag) -> 2H20(e) +1,93V
  ox 22n(s) → 22n+2(ag) + ye- +0.76 | Easier!!
       Ecett = Ecathode - Eanode ( ) E = 1.23V (-0.76) = 1.99V
      E°= 0.80 - (-0.13)= 0.93 V
                               Pb+2e-+Pb=0.73Var OX Pb -> Pb+2+2e +0.13
              -> Cath + a) Clatte + 2C1 +1.36 V Cut (a) C/2+2= -> 2c1 +1.36
                          E0= 1.36 - (-0.13) = 1.49V
                   b) Pb(s) + C12(s) -> Pb(as) + 2C1(as)
                  IM CI
```



71)
$$AG^{\circ} = -RTL_{\circ} K = \frac{(-9.3145)}{10001.K} (288) (1n.25) = -39755$$
 $AG^{\circ} = -nFE^{\circ}$
 $E^{\circ} = 1 = AG^{\circ} = \frac{-79755}{20001.K} = 0.041 \text{ } 0.04$

