1. Balance the following reaction and determine if it is an oxidation or reduction event.

2. For the reaction A→B, $\Delta G = 5$ kcal/mole and $\Delta G° = -4.9$ kcal/mole at 310 K .
   a. Check all that apply to A→B:
      _____ unfavorable
      _____ favorable
      _____ spontaneous
      _____ non-spontaneous
      _____ $[B]_{eq} < [A]_{eq}$
      _____ $[B]_{eq} > [A]_{eq}$
      _____ $[B] < [A]$
      _____ $[B] > [A]$

   b. Determine relative concentrations of products and reactants:

$$[B] = (?) [A]$$