

## Electrochemistry Worksheet 1 (Voltaic Cells)

1. Write the appropriate half reactions and calculate the cell potential for each of the following electrochemical cells:
  - (a) Copper and aluminum
  - (b) Silver and zinc
  - (c) Copper and nickel
  - (d) Nickel and cadmium
  - (e) Silver and aluminum
  - (f) Magnesium and zinc
  - (g) Lead and iron
  - (h) Copper and magnesium
  - (i) Magnesium and iron
  - (j) Copper and iron

2. Use standard reduction potentials to determine which of the following reactions can occur. For those that occur write an appropriate balanced chemical reaction.

