Yoltaic (Galvanic) Cells

1) Which of the following pairs will react **spontaneously**?

1) Co + CaSO $_4$ 2) Ba + MgCl $_2$ 3) Al + Sr(NO $_3$) $_2$ 4) Br $_2$ + NaCl Explain your answer.

- 2) What is a Voltaic (Galvanic) Cell?
- 3) What is inside the typical half cell in a Voltaic cell?
- 4) What is the purpose of the salt bridge in a Voltaic Cell?
- 5) How can one determine the direction in which electrons flow in a Voltaic Cell?
- 6) What is an anode?
- 7) What is a cathode?