## Synthesis and Analysis of a Coordination Compound Determination of the Percent Oxalate pre-lab

- 1. What solution is used for this titration?
- 2. What is the oxidation state of the iron?
- 3 The reaction between  $MnO_4^{2-}$  and  $C_2O_4^{2-}$  is slow at room temperature, how is the reaction rate increased?
- 4. How many grams of the green salt should be used and how accurately should it be weighed?
- 5. How many mL should be used for each? a) deionized water, b)  $H_2SO_4$ , c) 85% (concentrated)  $H_3PO_4$
- 6. What should be done if acid gets on your skin or clothing?
- 7. What temperature should the solution be for the titration? Should the solution boil?
- 8. How will the equivalence point be indicated?
- 9. If the results of the titrations are not consistent what must be done?