Name:	00	Fall 2014
	HPN	
QUIM3025L Section:	U.	<b>Date:</b>

## Experiment 10: Determination of iron in a Mohr's salt sample using manual and potentiometric titration

Pre-lab Exercise (10 pts)  *Include References		
2.	Explain why the titration is performed in the presence of acids. (2 pt)	
3.	1.567 g of an unknown Mohr's salt was dissolved in 80 mL of the sulfuric acid / phosphoric acid mixture solution. This iron solution was then titrated with a potassium permanganate solution (0.02M), what will be the volume at the equivalence point for the titration? Show all your calculations including formulas. No credit will be given for results only! (3 pts)	

4. Compare the two graphical methods (Normal E vs Volume, and first derivative curves) used to determine the equivalence point for your titration. Mention the advantages and disadvantages of each method. (2 pts)