

### Lab 2.1: Table 1

Fill in the table.

Tube no.	A	B	Absorbance	D	E	F
	Initial			Equilibrium		
	[Fe <sup>+3</sup> ]	[SCN <sup>-</sup> ]		[FeSCN <sup>+2</sup> ]	[Fe <sup>+3</sup> ]	[SCN <sup>-</sup> ]
1						
2						
3						
4						
5						

**Column A:** carefully follow through the process of diluting the original 0.200 M Fe(NO<sub>3</sub>)<sub>3</sub> solution. Clearly show the calculations needed for each determination.

Tube 1

Tube 2

Tube 3

Tube 4

Tube 5

**Column B:** each tube has 5 ml of 0.00200 M KSCN diluted by an equal volume of Fe(NO<sub>3</sub>)<sub>3</sub> solution. All tubes have the same initial concentration of SCN<sup>-</sup>. What is it? (Show your calculation)