Report Requirements: The report for this experiment should consist of the completed worksheet, including calculations, and graphs (3). Pay particular attention to reporting measurements, and results of calculations, to the correct number of significant figures, and comment on the accuracy and precision of your results in the questions.

Introduction: please use complete sentences.

1) What is the purpose of this experiment?

The purpose is to find the equilibrium constant.

Calculation of initial concentrations of reactants in unknowns

Use $M_1V_1 = M_2V_2$

M_1 = Concentration of reagent added to reaction mixture V_1 = Initial volume of reagent added
V_2 = Total volume of reaction mixture

Show calculations for the initial concentration of Fe^{3+} and HSCN in unknown 2.]

$[Fe^{2+}]$
(2 x 10^-3 x 5)/ 10 = 0.001

[HSCN]

(2 x 10^-3 x 2)/ 10 = 0.0004