Chemistry 20 - Unit D - Acid–Base Titration Curves and Indicators

	Name:			
`	In the titration of dilute ammonia with dilute hydrophlaric acid, a trial hill curve titration found the equivalence			

1) In the titration of dilute ammonia with dilute hydrochloric acid, a trial pH curve titration found the equivalence point pH of the solution to be 4.8. Explain why bromocresol green is a better indicator choice than alizarin yellow for this titration.

Answers will vary, Hint: Data Book.

2) Why must only a very small amount of indicator be used in a titration analysis?

Answers will vary

3) If congo red indicator is used in the titration of dilute nitric acid, HNO_{3(aq)}, with dilute sodium hydroxide, NaOH_(aq), will the indicator endpoint of the titration correspond to the equivalence point? Explain, using a sketch of the pH titration curve to illustrate your reasoning.

Hint: SA titrated with a SB... notes...

Answers will vary.

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4)	For a titration ana	ilysis to determine tr	ie concentration of an	i oxalic acid solution,	complete the following:

a) What information must you have in order to select an indicator for this reaction?

Answers will vary.

b) What equipment and procedure would be required to get this information?

Answers will vary

5) Why is it necessary to start a titration analysis with at least one standard solution?

Mint: known, well made, exact...

Answers will vary.