Regents Chemistry: Indicators Name:	Date:
SHOW ALL WORK IN PROBLEMS!	4.0
1) A solution with a pH of 3 is tested with litmus and bromcresol green	l.
a) What color is the litmus?	
b) What color is the bromocresol green?	
2) A solution with a pH of 11 is tested with litmus and phenolphthalein	
a) What color is the litmus?	,
b) What color is the phenolphthalein?	
3) A solution with a pH of 7.8 is tested with thymol blue and bromthym	nol blue.
a) What color is the thymol blue?	
b) What color is the bromthymol blue?	
4) A solution with a pH of 3.0 is tested with methyl orange and bromer	esol green.
a) What color is the methyl orange?	
b) What color is the bromcresol green?	-
5) Write a chemical equation for the neutralization reaction that occurs sodium hydroxide.	between hydrochloric acid and
6) Write a chemical equation for the neutralization reaction that occurs and sulfuric acid.	between potassium hydroxide
7) What is the most concise way of writing a neutralization reaction?	
8) A 30 mL sample of HCl is completely neutralized by 10 mL of a 1.5 molarity of the HCl solution?	M NaOH solution. What is the
9) How many mL of 4.0 M NaOH are needed to completely neutralize 6	60 mL of 3.2 M H ₂ SO ₄ ?