

Homework for test 4

CHM 1032C

Chapter 6

Problems: 39, 49, 51, 53, 57, 59, 65, 65, 67, 69, 73, 75, 79, 81, 83, 85, 87

Chapter 8.

Problems: 33, 35, 37, 41, 43, 45, 49, 51, 53, 55, 57, 59ab, 61a, 65, 67, 69, 71c, 81, 83, 85, 99, 100, 101

Extra Problems:

1. Given a 6.00 M solution of HCl, describe how you would make 11.0 liters of a 0.100 M solution of HCl?
2. Describe how you would make 6.0 liters of a 0.60 M solution of sodium hydroxide (NaOH) using solid sodium hydroxide.

Chapter 9.

Problems: 39, 45-47, 49, 51, 53, 55, 57, 61, 63, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 103, 105, 107

	[H <sup>+</sup> ] or [H <sub>3</sub> O <sup>+</sup> ]	[OH <sup>-</sup> ]	pH	pOH
0.00100 M HCl	0.000100			
0.100 M NH <sub>3</sub>			8.26	

2. What are the products of the following reactions and which way does the equilibrium lie?

