Assignment 2: Finding pH

- 1. What is pH a measure of?
- 2. What is the equation used for finding pH?
- 3. What is the equation that relates to pH and pOH?
- 4. Complete the following table

$[H_3O^+]$	[OH ⁻]	pН	рОН	Acidic/Basic?
1.0 x 10 ⁻⁹ M				
	4.1x10 ⁻² M			
		3.75		
			5.45	

			3.75						
			5.75	5.45					
5.	What would be the pH of each of the following:								
	a) 0.0010 M HCl		g) 0.024 M I	g) 0.024 M HCl					
	b) 0.0010 M H	INO3	h) 0.075 M KOH		_				
	c) 0.010 M Na	мОН	i) 0.000034 M HCl		_				
	d) 0.0035 M H	IC1	j) 0.00000000001M HCl		-				
	e) 1.0 M HBr								
	f) 1.0 M KOH	<u> </u>							
6.	6. A 2.63 g NaOH are dissolved in 156 mL of solution. Determine the NaOH concentration & the pH.								
7. List 3 strong acids and explain why these acids are considered strong acids.									
8. List 3 weak acids and explain why these acids are considered weak acids.									
9.	List 2 strong b	pases and explain why the	hese bases are considered	d strong bases.					

10. List 1 weak base and explain why it is considered a weak base.