

1. Classify the following properties as those belonging to an acid or base or both.

- a) bitter taste
- b) sour taste
- c) H^+ ion donating
- d) OH^- ion donating
- e) pH greater than 7
- f) pH less than 7
- g) H^+ ion accepting
- h) strong electrolyte (hint: an electrolyte dissolves into ions in water and therefore conducts electricity)
- i) weak electrolyte
- j) feels slippery

2. What is the difference between a *strong* acid or base and a *weak* acid or base?

3. Fill-in the following table.

$[H^+]$	$[OH^-]$	pH	pOH	Acid, Base, or Neutral
		4		
	1.0×10^{-5}			
1.0×10^{-11}				
			9	
	1.0×10^{-7}			