## Honors Chemistry Practice Test: Acids and Bases

a. b c. d e. f. g	1) Hydron 1) 1,0 × 10 - 1 1) 1× 10 - 1 1) decrease 1) 5+ cm 1) H 1) decrease 1	Ion product cc  1.0 × 16 - <sup>7</sup> / <sub>2</sub> Concent  As the pOH i  How many tin  Type of acid t  The Arrhenius  Accept What is an aci	tion.  onstant of water, Fration of [H <sup>+</sup> ] and noreases the [OH] mereases that is less than 10 s definition of an add by Bronsted Lo	[OH-] in pu ] (increases / a pH 2.0 that 0% dissociated is a subsection of the wry Definition	decreases) n pH 7.0? ed into ions. tance that produces _ on? A Base?	
i. j.	) decrease	S When vinegar	is added to a bea	ker of water	the $pH$ (increases / de hat has a $pH$ of 11.5,	
		tance as (A)cid or (B)ase Base, Conjugate Acid (C		e Base (CB)	for each equation.	(12 pts.) (4 pts.)
a.	OCI	+ NH <sub>4</sub> <sup>+</sup>	$\longrightarrow$	HOCI		NH <sub>3</sub>
	base	Acio		C. A	С,	B.
4.) N	lame or provide t	he formula for the follow	ving acids.			(4pts.)
	$H_2S$		hydrosel	func acip		
	HC <sub>2</sub> H	As 0 3	Arsenous Acid	d		
	H3	POY	Phosphoric Ac			
5.) C	omplete each tab	le. Maintain sig figs. S	ig Figs Count as 2	2 points!		(8 pts.)
	pΗ	9.24	pΙ	I	2.225	
	[H+]	5.7x10 <sup>-10</sup> M	[1	[+]	5.96 × 10-3	<sup>B</sup> M
	рОН	4,76	pC	OH	11.775	
	[OH-]	1.8 ×10-5	A.4 [C	)H-]	1.68 + 10	12 11
		1.8 ×10	74		1.68 - 10	29
7.) W A or are 8.) W 9.) 2. m	pH= 9.00 pH=	equation for the acid-base buret to the 3.58 ml mar hard the end point of the 0.00757 ml or eaction for an acid-base + Ca(0H) rdized 0.0948M NaOH i	e reaction of citric k with 0.230 M N titration the bure neutralization rea s added to 0.3351	pOH = acid and solution treading was coin that wo grams of an Hard NoII. Is the	dium hydroxide.  n. This solution was a 36.50 ml. What is the solution was a warm of the solution was a solution by the solution of the solution with the solution of the solu	used to titrate 10.00 ml
	HCI	D3 + KOH	> K	C102	+ 420	
	0.0	0105ml 0,003	526			
		1:1 L	R,	1.82	X10 13 M OI	H-
	-0.0	0052628		551	10-211+	H- PH=1,259
		00524 mol X	S H+ =	J.3/X	H W OI	b4=1.721
	(0.046	33 L + 0.049	873L)			