Na	ıme:							Per
A					nd Bases Sheet # 39			
1.				e unique to	acids:			
2.	List three properties that are unique to bases: a							
3.	Circle th	e substar	nces that a	are ACIDS	and <u>UNDER</u>	RLINE the B	BASES (8	points)
K	∃r K	OH	HBr	H ₂ O	HNO ₃	NaOH	NaCl	H ₂ SO ₄
4.	All the a	cids you	circled wil	l release _		_ in water.	(1 point)	
5.	. All of the bases you underlined will release in water. (1 point)							nt)
6.	6. If a solution has [H ⁺] = 5.7 x 10 ⁻⁹ M a. What is the pH? (1 point)							
	b. V	Vhat is th	e pOH? <i>(</i>	1 point)				
	c. I	s this sol	ution acid	c or basic?	(1 point)			
7.	If a solution has a $[OH^-] = 3.3 \times 10^{-8} M$							
	a. V	Vhat is th	e [H ⁺]? <i>(1</i>	point)				
	b. V	Vhat is th	e pH? (1	point)				

c. Is this solution acidic or basic? (1point)

8. Complete the following table. Give the equation used to solve each problem

[H+]	рН	рОН	[OH ⁻]	Acid, Basic or Neutral
0.030 M				
		4.62		
	2.72			
			1.6 x 10 ⁻⁶ M	
				Neutral
8.0 x 10 ⁻⁵ M				
	12.50			
		13.10		
			8.7 x 10 ⁻³ M	

9.	Determine	the pH	and the	pOH for	each of th	ne following	solutions.
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b. 0.42 M KOH

c. $0.030 \text{ M} \text{ H}_2\text{SO}_4$

d. 0.010 M Ba(OH)₂

a. 0.34 M HBr