$pH-pOH-[H^{\dagger}]-[OH^{-}]$

1. Calculate the values of both pH and pOH of the following solutions:

	рН	рОН
a. 0.020 M HCl		
b. 0.0050 M NaOH		
c. A blood sample		
$7.2 \times 10^{-8} \text{M of H}^{+}$		
d. 0.00035 M KOH		

2. Find the values of $[H^+]$, pOH, $[OH^-]$, that correspond to each of the following pH values:

	[H ⁺]	[OH ⁻]	рОН
a. pH of lemon juice = 2.90			
b. pH of sauerkraut = 3.85			
c. pH of milk of magnesia, a laxative = 10.81			
d. pH of most orange juices =			
4.11			
e. pH of dilute household			
ammonia in windex = 11.61			

- 3. Determine which of the solutions in #2 are acidic?
- 4. A certain brand of rootbeer has a hydrogen concentration equal to $1.9 \times 10^{-5} M$. What is the pH and pOH of this rootbeer?
- 5. Dr. Pepper has a [H+] = 1.4×10^{-5} M. What is its pH?

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6. Fill in the following table:

[H ⁺]	[OH-]	рН	рОН	ACID BASE NEUTRAL
1 X 10 -3				
	1 X 10 ⁻⁶			
		9		
			12	
				NEUTRAL
			9.5	
		4.7		
	2.0 X 10 ⁻³			
5.0 X 10 ⁻¹¹				
		4.35		

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