

Name: _____

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Unit: Acids, Bases, and Solutions

Acid and Base Calculations™ – Wksh #4



1. Calculate the pH of the solutions, given the following $[H^+]$, and then identify the solution as acidic, basic, or neutral.

a) $[H^+] = 1.2 \times 10^{-2} \text{ M}$

b) $[H^+] = 5.8 \times 10^{-6} \text{ M}$

c) $[H^+] = 3.92 \times 10^{-13} \text{ M}$

d) $[H^+] = 4.52 \times 10^{-7} \text{ M}$

2. Calculate the $[H^+]$ in the following solutions, given their pH, and identify the solution as acidic, basic or neutral.

a) $\text{pH} = 2.3$

b) $\text{pH} = 11.7$

c) $\text{pH} = 6.8$

d) $\text{pH} = 3.31$

3. Given the following pOH's, calculate the pH for the solutions:

a) $\text{pOH} = 4.18$

b) $\text{pOH} = 12.35$

4. Given the following pH's, calculate the pOH for the solutions:

a) $\text{pH} = 6.2$

b) $\text{pH} = 9.55$

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Wenbin Ji



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