Chemistry
Worksheet #2 – pH and pOH

Name _____
Date _____
Block _____

1. Draw and Label a pH scale

2. Calculate the pH of solutions with the following $[H_3O^+]$. Identify the solution as acidic, basic or neutral.

   a) 1.00×10^{-3}

   b) 1.00×10^{-10}

   c) 6.59×10^{-10}

   d) 9.47×10^{-3}

3. Find the pH of each of the following solutions and identify them as acidic, basic or neutral

   a) pOH = 2.00

   b) pOH = 8.00

   c) pOH = 1.263

   d) pOH = 9.714

4. Calculate the pH of solutions with the following $[OH^-]$. Identify the solution as acidic, basic or neutral.

   a) 1.00×10^{-9}

   b) 1.00×10^{-3}

   c) 9.56×10^{-4}

   d) 7.49×10^{-10}

5. Find the pH and the $[H_3O^+]$ of each of the following solutions and identify them as acidic, basic or neutral

   a) pOH = 9.50

   b) pOH = 3.65

   c) pOH = 12.63

   d) pOH = 1.14