5. A 9.07 x 10^{-9} solution of hydrobromic acid is made. What is the concentration of hydronium? D+30+J= 9.07×10-9 M What is the pH? -109 (9.07 ×10-9)=8.04 What is the pOH? 14-8.04=5.90 6. A 4.65 x 10⁻¹ M solution of aluminum hydroxide is made. What is the concentration of hydroxide. What is the concentration of hydronium? $H_{3}O^{+} = \frac{1 \times 10^{-19}}{1.40} = 7.14 \times 10^{-15} \text{ M}$ [H30+]= What is the hydroxide concentration? [OH-7= 3(4,65×10-1)=1,395=1,40M What is the pH? What is the pOH? $-\log(1.40) = -.140$ A 0.072 M solution of hydrochloric acid is made. What is the concentration of hydronium? [H30+] = .072M What is the hydroxide concentration? $1 \times 10^{-14} = 1$ = 1,39×10-13 .072 What is the pH? $\frac{-100(.072)}{-14}$ What is the pOH? 14-1.14=12.86 8. If the pH of a hydrochloric solution is 4.5, What is the concentration of hydronium? [H30+]= antilog (-4.5) = 3.2 ×10-5 M What is the hydroxide concentration? [OH-] = antilog (-9.5) = 3.2×10 What is the molarity of the solution? 3.2 ×10-5 M What is the pOH? 14-4.5 = 9.5