## Dougherty Valley HS Chemistry - AP Acid Base – pH Calculations

Name:	Period:	Seat#:
Directions: Show all work. Box final answers.		
1) Strong Acid Solution — assume full dissociation Calculate the pH of 0.00125 M HNO <sub>3</sub> 2.903 >> Determine [H*] and then the pH.	2) Strong Base Solution — Calculate the pH of 0.00 >> Determine [OH-], calcu	
3) Weak Acid Solution — does not fully dissociate Calculate the pH of 0.00125 M HOCl 5.18  K <sub>a</sub> = 3.5 x 10 <sup>-8</sup> >> Determine [H <sup>+</sup> ] using an ICE table, then calculate the pH.	4) Weak Base Solution — Calculate the pH of 0.00 K <sub>b</sub> = 1.8 x 10 <sup>-5</sup> >> Determine [OH] using calculate the pH.	

