Name_	KEY	nic acid is made.	Period	110 - solut	Date	
	1	Acid and Bases – Ca	alculations – 2a	Assume	completed	ssociation.
Please a	answer each o	f the following questions. S	Show all work to	receive full	l credit.	
1. Wh	at is the conce	1.56 x 10 ⁻⁴ M nitric acid i				
		156×10 ⁻⁴ M		0,8) 80		
Wh	at is the hydro	xide concentration?				
	[OH-] =	1.56×10-4 = 6.41	×10-11 M			
Wh	at is the pH?	g(1,56×10-4) = 3.81		concentrati		
Wh	at is the pOH?	Ma. Olx HI				
	14-	- 3.81 =10.19	concentration? +			
		M solution of sodium hydentration of hydronium?	lroxide is made.			
	[H30+]=	1×10 = 2.49 >	(10-14M)			
Wh	at is the hydro	xide concentration?				
***	011	4.02×10-1 M	VHX. = (0)	POH?		
wn	at is the pH?	.396=13.6				
Wh	at is the pOH					
	-1091	(4.02×10-1) = .396	MITD.			
	A 8.51 x 10 ⁻⁷ at is the conce	M solution of phosphoric	acid is made.			
	[H30+]=	entration of hydronium? $3(8.51 \times 10^{-7}) =$	2.55 × 10-61	1		
Wh	at is the hydro	oxide concentration?	2 50			
	LOH-J =	exide concentration? $\frac{1 \times 10^{-14}}{2.55 \times 10^{-14}} = 3.92$	×10-911		What is the	
Wh	at is the pH?	(2.55×10-6)= 5,59				
Wh	at is the pOH	?				
	14-	5.59=8.41 Male	OF()			
4. Wh	A 1.07 x 10 at is the conce	M solution of magnesium? I X \bigcirc				
3371-	ot in the burden					
VV II		exide concentration? $2(1.07 \times 10^{-5}) =$	2.14×10-51	n - C H		
Wh	at is the pH?	1-4.67=9.33				
Wh	at is the pOH)				
	-100	12.14 ×10-5) = 4.6	1			