Worksheet 9

For the following write SA if it is a strong acid, SB if it is a strong base, WA if it is a weak acid, WB if it is a weak base and Salt if it is a salt.

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КОН	HNO ₃				
HCIO	H ₂ CO ₃				
HClO ₄	K ₂ CO ₃				
NH ₃	HBr				
KBr	LiOH				

For the following write the pH. If it is impossible to tell write a question mark (?)

Solution	рН	Solution	pН	Solution	pН
.0001 M HNO ₃		.00001 M KOH		.001 M LiOH	
.01 M NaOH		.0000000001 M H3O ⁺		.1 M OH	
.000001 M HCl		.00001 M NH ₃		.00001 M HClO ₄	
.0001 M NaCl		.1 M KBr		.00001 M HCl	
.000001 M HF		.001 HC ₂ H ₃ O ₂		.000001M NaOH	

For the following write S if it is a strong electrolyte, W if it is a weak electrolyte and N if it is a non electrolyte. (Don't for get to chech the solubility rules)

KCl	HCl
ine.	ne.
C ₂ H ₅ OH (polar)	CCl ₄ (nonpolar)
NaOH	HF
HNO ₃	AgCl
NaC ₂ H ₃ O ₂	NH ₃
Zn(OH) ₂	HNO ₂
$HC_2H_3O_2$	BaSO ₄

For the following write ves if it is a buffer and no if it is not a buffer

For the following write yes if it is a duffer and no if it is not a duffer					
HCl and NaOH	NaCl and KCl				
HF and NaF	KCl and HCl				
HNO ₂ and KNO ₂	HC ₂ H ₃ O ₂ and NaC ₂ H ₃ O ₂				
	-2 3-2				
HNO ₃ and KNO ₃	NaCl and NaOH				
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