Write a dissociation equation for each compound and calculate the pH and pOH of each solution.

1. 0.010 M HCl	pH = pOH =
2. 0.0010 M NaOH	pH = pOH =
3. 0.050 M Ca(OH) ₂	pH = pOH =
4. 0.030 M HBr	pH = pOH =
5. 0.015 M KOH	pH = pOH =
6. 2.0x10 ⁻⁴ M HIO ₄	pH = pOH =
7. 1.2x10 ⁻³ M LiOH	pH = pOH =
8. 5.0x10 ⁻⁴ M H ₂ SO ₄	pH = pOH =
9. 0.50 M HNO ₃	pH = pOH =
10. 0.040 M Ba(OH) ₂	pH = pOH =

			Name:					
(1) Acids: Write the formula or name each acid.						Period:		
(a)	F ⁻	Cl ⁻					P ³⁻	
H^{+}	ex. HF		HBr			H ₃ N		
name no oxygen → hydro ic	ex. hydro <u>fluor</u> ic acid			hydroiodic acid	hydrosulphuric acid			
(b)	C ₂ H ₃ O ₂ ⁻	ClO ₃					PO ₄ ³⁻	
polyatomic ion	acetate			cyanate		nitrate	·	
H^{+}	HC ₂ H ₃ O ₂		HBrO ₄					
$\begin{array}{c} \text{name} \\ \text{ate} \rightarrow \text{ic} \end{array}$	ex. acetic acid				sulphuric acid			
(c)	$\mathrm{IO_2}^-$	ClO ₂					PO ₃ ³⁻	
polyatomic ion	iod ite			hypoiodite		nitrite		
H^{+}	HIO ₂		HBrO ₂					
name ite → ous	iod ous acid				sulphurous acid			
(2) Bases: Write th	ne formula or name each	n base	•					
	Na ⁺	Li ⁺			Sr ²⁺		Al^{3+}	
OH_	ex. NaOH			Ca(OH) ₂				
name	ex. sodium hydroxide		potassium hydroxide			barium hydroxide		