

[H ⁺]	[OH ⁻]	pH	pOH
	.0001M		
1.74 X 10 ⁻⁴			
.823M			
	.765M		
		2.3	
			8.5
			6.13
	2.77 X 10 ⁻¹⁰		
	4.49 X 10 ⁻⁹		
		12.5	
			1.35
		6.89	
1.00 X 10 ⁻⁹			
	.01M		
Anhydrides: Label acid or base (show your work)			
Cs ₂ O			
TeO ₂			
Cr ₂ O ₃			
Na ₂ O			
K ₂ O			
Label the acid, base, conjugate acid, conjugate base:			
H ₃ PO ₄ + 3 NaOH → Na ₃ PO ₄ + 3 H ₂ O			
NH ₃ + H ₃ O ⁺ → NH ₄ ⁺ + H ₂ O			
CH ₃ OH + NH ₂ ⁻ → CH ₃ O ⁻ + NH ₃			
1) 15 mL 2M H ₂ SO ₄ completely neutralizes 100 mL of NaOH.			
What is the concentration of the base?			
2) 250 mL of .25M Ca(OH) ₂ is used to neutralize 1200 mL H ₃ PO ₄ .			
What is the concentration of the acid?			
3) How many liters of 9M NaOH is needed to neutralize			
1.5 L of 12M HCl?			