

Unit 7J Practice Problems I Acids and Bases

| N | a | m | e |
|---|---|---|---|
| | | | |

Date:

| 1. | Name these Acids: | | |
|----|--|--------------------------------|--|
| | НІ | H ₂ SO ₃ | |
| | HNO ₃ | H ₃ PO ₄ | |
| 2. | Write formulas for these acids: | | |
| | hydrofluoric acid: | phosphorous acid: | |
| 3. | Name these bases and salts: | | |
| | кон | MgSO ₄ | |
| 4. | Calculate the pH of a 1.4 x 10 ⁻² M NaOH solution | | |
| 5. | Calculate the [H+] of a solution with pH = 3.2 | | |
| 6. | Calculate the [OH ⁻] of a solution with a [H ⁺] of 9.3 x | 10 ⁻⁴ M | |



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| 0. | 9. What is the word equation for the neutralization of | equal the moles of; a ph <7 would mean the solution |
|----|--|---|
| 0. | 10. In a neutral solution, moles of | equal the moles of |
| | | |
| 9. | 9. What is the word equation for the neutralization o | of a strong acid and strong base? |
| | | |
| | b) What is the molarity of the acid? | |
| | a) Write the equation for this neutralization reaction | |
| 8. | 8. In a titration, 24.2 mL of 0.120 M $Mg(OH)_2$ were requ | uired to neutralize 33.1 mL of H₃PO₄. |
| | b) Calculate the molarity of the acid: | |
| | 1.01 1.11 1.11 1.11 | |
| | a) Write the equation for this neutralization reaction | n; |