**Solutions Chem:**

**Titrations: Quiz 5b**

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Answer the following:

1. Complete the following equations:
   1. HBr + Al(OH)3 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. Mg(OH)2 + H3PO4 🡪\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. In a titration, 18.5 ml of 0.600 M NaOH solution is needed to neutralize 35.0 ml of unknown molarity H2SO4 solution. Calculate the molarity of the H2SO4 solution. Include an equation that represents this reaction.

Answers:

1. Complete the following equations:



1. 3HBr + Al(OH)3 🡪 3H2O + AlBr3



1. 3Mg(OH)2 + 2H3PO4 🡪 Mg3(PO4)2 + 6H2O
2. In a titration, 18.5 ml of 0.600 M NaOH solution is needed to neutralize 35.0 ml of unknown molarity H2SO4 solution. Calculate the molarity of the H2SO4 solution. Include an equation that represents this reaction.



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