Student Worksheet LSM 7.4D Solution Stoichiometry, Extra Exercises

Complete the following stoichiometric problems. Communicate your problem-solving approach using internationally accepted symbols for elements, quantities, numbers, and units.

internationally accepted symbols for elements, quantities, numbers, and units.	
1.	What is the amount concentration of a KOH(aq) solution if 12.8 mL of this solution is required to react with 25.0 mL of 0.110 mol/L $H_2SO_4(aq)$?
2.	What volume of 0.125 mol/L NaOH(aq) is required to react completely with 15.0 mL of 0.100 mol/L Al $_2(SO_4)_3(aq)$?
3.	In a chemical analysis, a 10.0 mL sample of $H_3PO_4(aq)$ was reacted with 18.2 mL of 0.259 mol/L NaOH(aq). Calculate the amount concentration of the phosphoric acid.
1.	The concentration of magnesium ions (assume magnesium chloride) in sea water was analyzed and found to be 50.0 mmol/L. What volume of 0.200 mol/L sodium hydroxide solution would be needed in an industrial process to precipitate all of the magnesium ions from 1.00 ML of sea water?