Solution Stoichiometry

1. How many mL of 0.125M NaOH will react with 30.00 mL of 0.400M CuSO4 solution?
2. How many grams of barium sulfate (233.4 g/mole) will result from mixing 345 mL of 0.237 M sodium sulfate with 484 mL of 0.132 M barium chloride?

Answers: 1) 192 mL NaOH 2) 14.9 g BaSO4

1. If 25.0 mL of 0.0500M FeCl2 solution are mixed with 5.00 mL of 0.200M K3PO4 solution, how many grams of Fe3(PO4)2 (s) (molar mass = 357.5 g/mole) will form?
2. How many mL of 0.422 M silver nitrate will be necessary to precipitate all the chloride in 125 mL of 0.274 M magnesium chloride solution?

Answers: 3) 0.149 g Fe3(PO4)2 4) 162 mL AgNO3