1. What is a standard solution?

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1. What volume of 2 M hydrochloric acid will neutralize 25 cm3 of 2 M sodium carbonate?

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1. 20 cm3 of 1 M sulfuric acid were neutralised by 25 cm3 of ammonia solution. Calculate the concentration of the ammonia solution. (See the equation below)

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Ammonia reacts with sulfuric acid to give ammonium sulfate:

**2NH3 (*aq*) H2SO4 (*aq*) 🡒 (NH4)2SO4 (*aq*)**

**ammonia sulfuric acid ammonium sulfate**