

# Predicting Reactions

## COMPLEX ION PRACTICE

- a) excess concentrated potassium hydroxide solution is added to a precipitate of zinc hydroxide.
- b) excess concentrated sodium hydroxide solution is added to solid aluminum hydroxide.
- c) a solution of ammonium thiocyanate is added to a solution of iron(III) chloride.
- d) a concentrated solution of ammonia is added to a solution of zinc iodide.
- e) an excess of nitric acid solution is added to a solution of tetraamminecopper(II) sulfate.
- f) a concentrated solution of ammonia is added to a solution of copper(II) chloride.

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## Practice Group 2

- a) excess concentrated ammonia solution is added to a suspension of silver chloride.
- b) excess sodium cyanide solution is added to a solution of silver nitrate.
- c) excess potassium hydroxide solution is added to a solution of aluminum nitrate.
- d) excess hydrochloric acid is added to a solution of diamminesilver(I) nitrate.
- e) excess concentrated ammonia solution is added to a solution of nickel(II) sulfate.
- f) a drop of potassium thiocyanate solution is added to a solution of iron(III) nitrate.

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