

Quiz 3: Reactions (10 pts)

1. For each of the following reaction descriptions, write an appropriate unbalanced equation and indicate the correct state of matter for each substance.
 - a. The solution of copper (II) nitrate is treated with a potassium hydroxide solution to form copper(II) hydroxide precipitate. (3 pt)

 - b. The product of part a above is reacted with excess NH_3 so that one Cu(II) ion and four NH_3 molecules combine to form a deep blue complex ion. (3 pt)

2. For each of the above reactions, identify the type of reaction according to the four types we discussed in class. (2 pt)

3. For part b, balance the equation and write the net ionic equation. (2 pt)