

1. (2 points) Write the solubility rules.

2. (18 points) Complete the following table for precipitation reactions. If a precipitate forms, then write the correct formula, if no precipitate forms, write NR.

| Ions | Chloride | Carbonate | Sulfate | Phosphate | Nitrate | hydroxide |
|-----------|----------|-----------|---------|-----------|---------|-----------|
| Potassium | | | | | | |
| Lead (II) | | | | | | |
| Barium | | | | | | |
| Silver(I) | | | | | | |
| Iron (II) | | | | | | |
| Magnesium | | | | | | |