**Predicting Reaction Products Magic!**

Use your knowledge of how chemical reactions work to predict the products of the following reactions (balancing if necessary) and to indicate the type of reaction that’s occurring. If the reactions don’t take place, indicate that this is the case.

1. LiBr + CaCl2 →
2. C3H8O2 + O2 →
3. Pb + SnF4 →

1. Ba(OH)2 + H3PO4 →
2. H2CO3 →
3. S8 + P4 →
4. FeBr2 + MgSO4 →
5. NaNO3 + Ca(OH)2 →