Decomposition Reactions

Complete and balance each of the following decomposition reactions. In each case, heat is needed to make the reaction occur.

1. $BaCO_3$ → _____
2. Fe_2O_3 → _____
3. $Fe(OH)_2$ → _____
4. Rb_2CO_3 → _____
5. $BaCl_2$ → _____
6. $CaCO_3$ → _____
7. KOH → _____
8. HgO → _____
9. $CoCO_3$ → _____
10. Ag_2O → _____
11. $Al(OH)_3$ → _____
12. $Cr(CO_3)_3$ → _____
13. $Ti(OH)_4$ → _____
14. H_2CO_3 → _____

Write a balanced chemical equation for each of the following reactions.

15. magnesium carbonate

16. lithium hydroxide

17. iron (III) sulphate

18. sulphuric acid