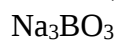
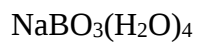
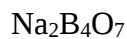


Exercise IV

1) Which of the following compounds is an oxidant:



Nr. 3

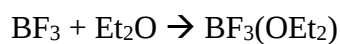
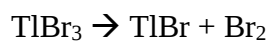
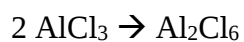
2) What are the two 'tricks' which are used to produce Aluminum by electrolysis?

Add Na_3AlF_6 (significantly lower melting point) and use carbon electrodes (formation of CO and CO_2 helps the energetics)

3) The +1 oxidation state is particularly important for which element: Al, B, Tl or Ga ?

Tl

4) In which reaction is the MX_3 compound not behaving as a Lewis acid:



Nr. 2

5) The boron atoms in borazine are susceptible to:

attack by a nucleophile

attack by an electrophile

Nr 1