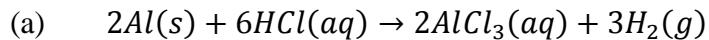


Answers to Exercise 7.3

Reactions of Aluminium and Aluminium Oxide

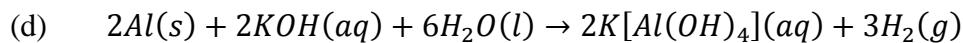
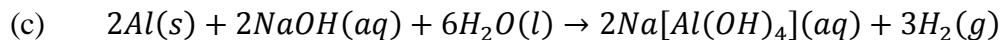


2.

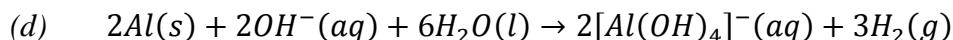
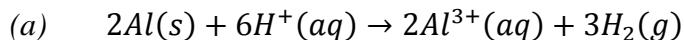


(b) no reaction

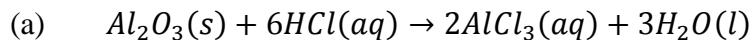
HNO₃ is an oxidizing acid; as such, it cannot penetrate the passivation layer of Al₂O₃ on the surface of the Al so there is no reaction



Net ionic equations are also acceptable:

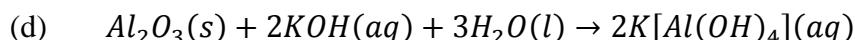
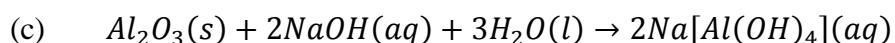


3.



(b) no reaction

HNO₃ is an oxidizing acid



Net ionic equations are also acceptable:

