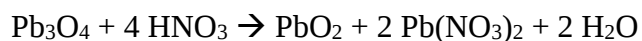


Exercise VII

1) Which of the following reactions is a disproportionation?



The 1st one

2) Which statement about silicates is incorrect?

Si is 4-coordinate

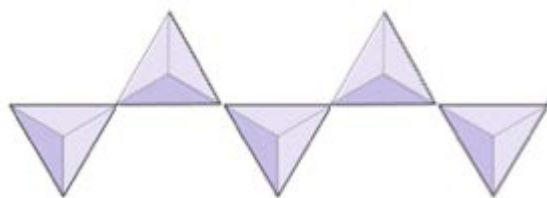
Some silicates contain isolated molecular ions

Talc and mica are examples of silicates with chain structures

Zeolites are aluminosilicates

The 3rd one

3) What is the formula and charge of the anion in (single) chain silicates



SiO_3^{2-}

4) What are differences in the chemical reactivity of silanes vs. alkanes?

Silanes spontaneously burn in air to give SiO_2 and H_2O , and they decompose into the elements upon heating

5) What is the difference between silicones and silicates ?

Silicates are the salts of silicic acid, and its condensation products.

Silicones are neutral polymers with the general structure $(\text{SiR}_2\text{O})_n$ (R mostly CH_3)