

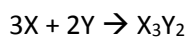
**Task:**

a.) Element X is a metal with a valency 2. Element Y is a non-metal with a valency 3.

1) write equation to show how X and Y form ions

**Answer:**

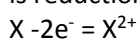
The chemical equation for the synthesis reaction between X and Y is



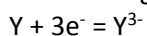
If the difference between their electronegativities is big enough, they form ionic compound.

It's oxidation-reduction reaction.

Metal tends to gain electrons because of its electron configuration. And that's why the metal is reduction agent and is oxidized in this reaction.



The non-metal tends to accept electrons because of its higher electronegativity. That's why it is oxidation agent and is reduced in this reaction.



Let's write oxidation and reduction reactions together

