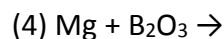
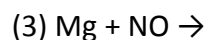
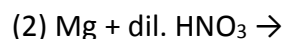
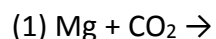


Answer on Question #41368 – Chemistry – Inorganic Chemistry

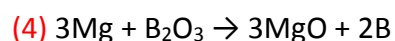
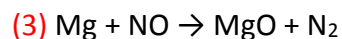
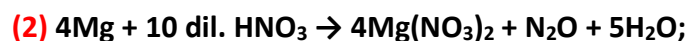
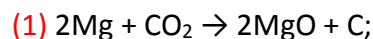
Question:

In which of the following reactions, MgO is not formed:



Answer:

The following reactions occur in each case:



In cases (1), (3) and (4) metallic Mg reacts with oxides which results in MgO and reduced compound. Only in case (2) Mg reacts with diluted HNO_3 , which oxidase Mg^0 to Mg^{2+} . (1), (3) are reactions of solid phase (Mg) with gases (CO_2 and NO respectively) and (4) is a reaction of two solid phases (Mg and B_2O_3). On the contrary, in case (2) reaction undergoes in solution, so the formation of MgO does not take place.

In the reaction (2) MgO is not formed.