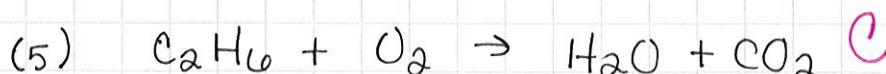
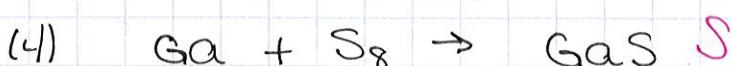
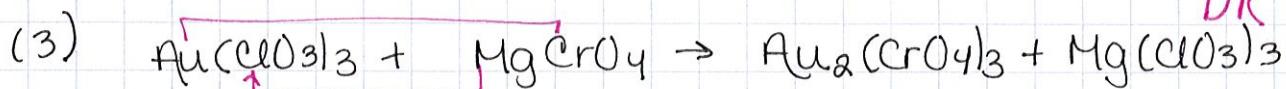
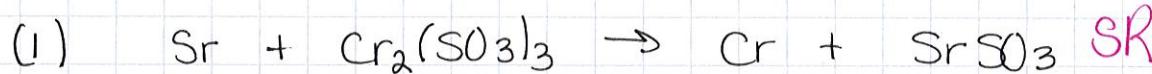


Types of Reactions

<u>type</u>	<u>general form</u>	<u>how to recognize</u>	<u>examples</u>
synthesis	$A + B \rightarrow AB$	1 product	$Na + Cl_2 \rightarrow 2NaCl$ $O_2 + F_2 \rightarrow OF_2$
decomposition	$CD \rightarrow C + D$	1 reactant	$H_2O_2 \rightarrow H_2O + O_2$ $NH_3 \rightarrow Na + H_2$
combustion (very specific)	$C_xH_y + O_2 \rightarrow CO_2 + H_2O$	O_2 is reactant CO_2 & H_2O are products	$CH_4 + O_2 \rightarrow H_2O + CO_2$ $C_2H_5OH + O_2 \rightarrow CO_2 + H_2O$
single-replacement	$A + BC \rightarrow B + AC$	1 element + 1 compound	$Na + Fe(NO_3)_3 \rightarrow$ $Fe + NaNO_3$ $F_2 + CaBr_2 \rightarrow$ $Br_2 + CaF_2$
double-replacement	$AB + CD \rightarrow AD + CB$	2 compounds switching ions	$LiOH + H_2SO_3 \rightarrow$ $Li_2SO_3 + HOH$ (H_2O)

Practice



(1)

Predicting Products

