Type of Chemical Reaction

Determine the type of reaction for each equation below. Use the code below to classify each reaction.

S = Synthesis D = Decomposition SR = Single Replacement DR = Double Replacement

$$\underline{\hspace{1cm}}$$
 Mg + O₂ \rightarrow MgO

$$HgO \rightarrow Hg + O_2$$

$$Al_2O_3 \rightarrow Al + O_2$$

$$\underline{\hspace{1cm}}$$
 H_2 + N_2 \rightarrow NH_3

$$Na + Br_2 \rightarrow NaBr$$

$$CuCl_2 + H_2S \rightarrow CuS + HCl$$

$$\underline{\hspace{1cm}} \hspace{1cm} HgO \hspace{1.2cm} + \hspace{1.2cm} Cl_2 \hspace{1.2cm} \rightarrow \hspace{1.2cm} HgCl \hspace{1.2cm} + \hspace{1.2cm} O_2$$

$$C + H_2 \rightarrow CH_4$$

$$_$$
 KClO₃ \rightarrow KCl + O₂

$$\underline{\hspace{1cm}}$$
 S_8 + F_2 \rightarrow SF_6

$$_$$
 BaCl₂ + Na₂ SO₄ \rightarrow NaCl + BaSO₄