Complete the following reactions. Circle the most favored products.

1.
$$\rightarrow$$
 + H₂O \rightarrow

$$2. \qquad \text{CI} \qquad \frac{500 \text{ K}}{\Delta}$$

$$^{4.}$$
 $^{+}$ Cl_2 \longrightarrow

5.
$$+ \text{ Cl}_2 \longrightarrow$$

11.
$$+ H_2O \rightarrow$$

15.
$$\leftarrow$$
 $+$ H_2O \longrightarrow

16.
$$\leftarrow$$
 + Cl_2 \rightarrow

17.
$$+$$
 HCl \rightarrow

$$^{19.}$$
 CH $_4$ $^+$ HCI \longrightarrow

$$20. \hspace{1cm} + \hspace{1cm} \operatorname{Cl}_2 \hspace{1cm} \longrightarrow \hspace{1cm}$$

$$21. \bigcirc \hspace{0.2in} + \hspace{0.2in} \longrightarrow \hspace{0.2in}$$

$$23.$$
 + HCl \rightarrow

$$24.$$
 + HCl \rightarrow

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Question 9: No Reaction

Question 10:
$$\bigcirc$$
 OH \bigcirc +HO \bigcirc OH

Question 11:
$$H_2(g)$$
 + \rightarrow OH + \rightarrow OH + \rightarrow OH + \rightarrow OH

Question 15:
$$H_2(g)$$
 + \checkmark

Question 16:
$$HCI$$
 + CI + CI + CI + CI + CI

Question 18:
$$+ H_2(g)$$

Question 19:
$$H_2(g)$$
 +-CI

Question 22: ___co_2 (g) + ___ H_2O (g) + Heat Balance:
$$(1,5,3,4)$$

Question 24:
$$H_2$$
 (g) $+$ \bigcirc

Question 25: ___co_2 (g) + ___ H_2O (g) + Heat Balance:
$$(1,9,6,6)$$