Complete the following reactions. Circle the most favored products.

3.
$$+ H_2(g) \rightarrow$$

$$9.$$
 $+$ Cl_2 \longrightarrow

11.
$$+$$
 HCl \rightarrow

13.
$$+ H_2O \rightarrow$$

15.
$$\longrightarrow$$
 + H₂O [H+]

16.
$$+ \text{ Cl}_2 \longrightarrow$$

17.
$$+ H_2O \rightarrow$$

19.
$$\downarrow$$
 OH + \downarrow OH \sqsubseteq \vdash \vdash OH

$$20.$$
 —OH + OH [-H₂O]

22.
$$+$$
 HCI \rightarrow

23.
$$H_2/Ni$$
 Δ

$$24. \hspace{1cm} \bigcirc \hspace{1cm} \bigcirc \hspace{1cm} + \hspace{1cm} \bigcirc \hspace{1cm} \bigcirc \hspace{1cm} \square \hspace{1cm}$$

$$25. \qquad \stackrel{\mathsf{OH}}{\longrightarrow} \qquad \stackrel{[\mathfrak{0}]}{\longrightarrow}$$

Question 8:
$$(O)$$
 (O) (O)

Question 9:
$$+ Cl_2 \rightarrow HCl + Cl_2 + Cl_2$$

Question 12:
$$\longrightarrow_{H}$$
 $+ \longrightarrow_{H_2}$ \longrightarrow_{H_2} \longrightarrow