## **Organic Reactions #1**

Write the products for the reactants given in the following reactions:

$$_{1.} C_{3}H_{8+} O_{2} \rightarrow$$

$$C=C$$
  $+$   $F_2 \rightarrow$ 

$$_{3.}$$
  $C_{2}H_{5} + O_{2} \rightarrow$ 

$$5. -C \equiv C - + Cl_2 \rightarrow$$

$$_{7.}$$
  $\stackrel{\downarrow}{-}$   $\stackrel{\downarrow}{-$ 

9. 
$$-\dot{C} - \dot{C} = C + H_2O \rightarrow$$

10. 
$$\begin{array}{c} O \\ -\overset{\downarrow}{C} -\overset{\downarrow}{C} -\overset{\downarrow}{C} -\overset{\downarrow}{C} -O -\overset{\downarrow}{C} -\overset{\downarrow}{C} -\overset{\downarrow}{C} + \\ + & H_2O \end{array}$$

11. 
$$C=C$$
  $+$   $H_2O$   $\rightarrow$ 

$$C=C=C_{+}^{\prime}O_{2}$$

13. 
$$-C-OH + -C-OH \rightarrow$$

$$\begin{array}{cccc}
0 \\
\parallel \\
15. & H-C-H + O_2 \rightarrow
\end{array}$$

$$_{16.}$$
  $C_8H_{18}$   $_+$   $Br_2$   $\rightarrow$ 

$$_{18.}$$
  $-C≡C- + F2 →$ 

**17.**