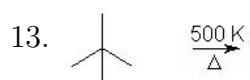
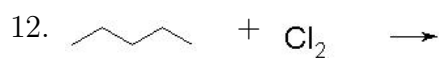
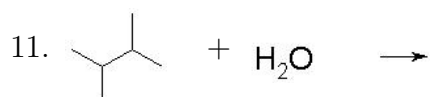
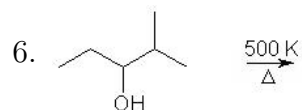
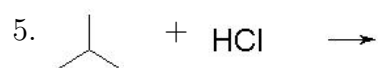
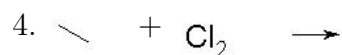
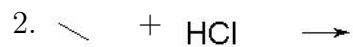
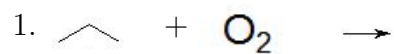
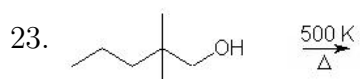
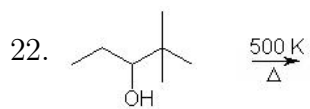
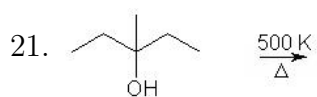
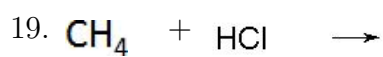
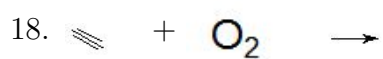
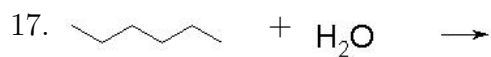
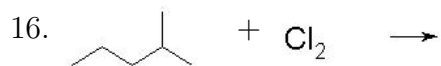
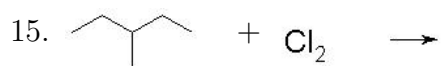
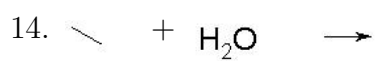


Complete the following reactions. Circle the most favored products.





Question 1: $\underline{\hspace{1cm}} \text{CO}_2(\text{g}) + \underline{\hspace{1cm}} \text{H}_2\text{O}(\text{g}) + \text{Heat}$ Balance: (2,13,8,10)

Question 2: $\text{H}_2(\text{g}) + \text{CH}_3\text{CH}_2\text{Cl}$

Question 3: $\text{CH}_2=\text{CHCH}_3 + \text{H}_2(\text{g})$

Question 4: $\text{HCl} + \text{CH}_3\text{CH}_2\text{Cl}$

Question 5: $\text{H}_2(\text{g}) + \text{CH}_3\text{CH}_2\text{CH}_2\text{Cl} + \boxed{\text{CH}_3\text{C}(\text{Cl})(\text{CH}_3)_2}$

Question 6: $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}=\text{CH}_2 + \boxed{\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)=\text{CHCH}_3} + \text{H}_2\text{O}$

Question 7: $\text{H}_2(\text{g}) + \text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{OH} + \text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{OH})\text{CH}_3 + \boxed{\text{CH}_3\text{C}(\text{OH})(\text{CH}_3)_2} + \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH}$

Question 8: $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}=\text{CH}_2 + \boxed{\text{CH}_3\text{CH}_2\text{C}(\text{CH}_3)=\text{CHCH}_3} + \text{CH}_3\text{CH}_2\text{CH}=\text{CH}_2 + \text{H}_2(\text{g})$

Question 9: $\text{H}_2(\text{g}) + \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{OH} + \boxed{\text{CH}_3\text{CH}_2\text{CH}(\text{OH})\text{CH}_3}$

Question 10: $\text{HCl} + \text{CH}_3\text{Cl}$

Question 11: $\text{H}_2(\text{g}) + \text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{OH} + \boxed{\text{CH}_3\text{C}(\text{OH})(\text{CH}_3)_2}$

Question 12: $\text{HCl} + \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{Cl} + \boxed{\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{Cl})\text{CH}_3} + \boxed{\text{CH}_3\text{CH}_2\text{CH}(\text{Cl})\text{CH}_2\text{CH}_3}$

Question 13: No Reaction

Question 14: $\text{H}_2(\text{g}) + \text{CH}_3\text{CH}_2\text{OH}$

Question 15: $\text{HCl} + \text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{Cl} + \text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{Cl})\text{CH}_3 + \boxed{\text{CH}_3\text{C}(\text{Cl})(\text{CH}_3)_2} + \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{Cl}$

