

**Date:**

## **Organic Reactions**

### **Part 1: Reactions with alkenes and alkynes**

*For each of the following organic reactions, draw the structural diagrams for the reactions and then label each diagram with the name of the compound.*

1. React each of the following with chlorine gas.

a. 2-pentene

b. 2-pentyne

2. React each of the following with fluorine gas.

a. 1-propene

b. 1-propyne

3. React each of the following with hydrogen gas.

a. 2-butene

b. 2-butyne

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## **Organic Reactions**

### **Part 2: Reactions of carboxylic acids and alcohols**

*For each of the following organic reactions, draw the dot diagrams for the reactions and then label each diagram with the name of the compound.*

1. Butanoic acid reacts with ethyl alcohol.

2. Propanoic acid reacts with propyl alcohol.

3. Hexanoic acid reacts with butyl alcohol.

4. Ethanoic acid reacts with propyl alcohol.