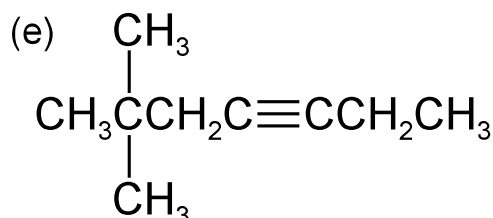
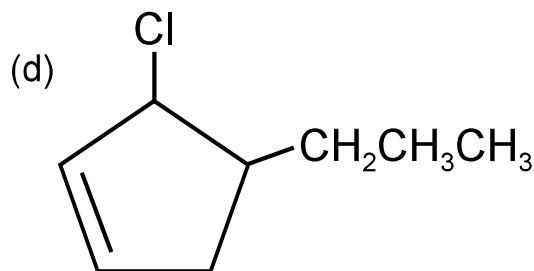
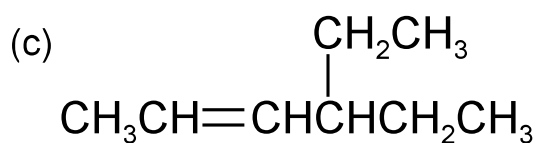
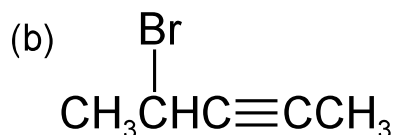
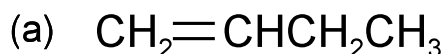


## PRACTICE

### Organic Chemistry Lesson 3: Alkenes and Alkynes

1. Name the following compounds.



2. Draw the structure for each of the following compounds.

(a) but-2-yne

(b) 2,5-dimethylhept-3-ene

(c) 3-bromoprop-1-yne

(d) cyclohexa-1,3-diene

(e) ethene

3. Ethyne is better known as acetylene (you should commit the name “acetylene” to memory as this is the preferred name). Acetylene burns at a high temperature and is used in oxy-acetylene welding torches. Write the balanced chemical equation for the complete combustion of acetylene.

4. Write the structural equation for each of the following reactions. Include any special conditions. Give major and minor products where appropriate.

(a) halogenation of but-2-ene with chlorine

(b) hydrohalogenation of hex-3-ene with hydrogen bromide

(c) hydration of pent-1-ene

(d) hydrogenation of cyclohexene