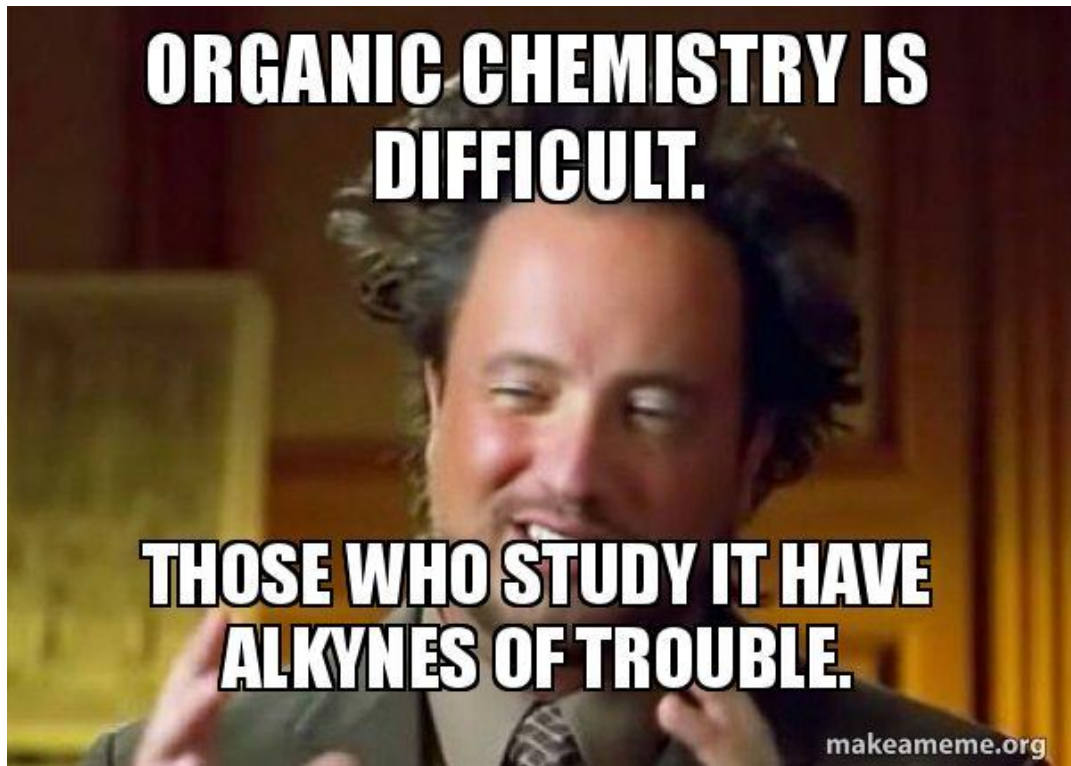


# Nov 4-8 Practice Problems

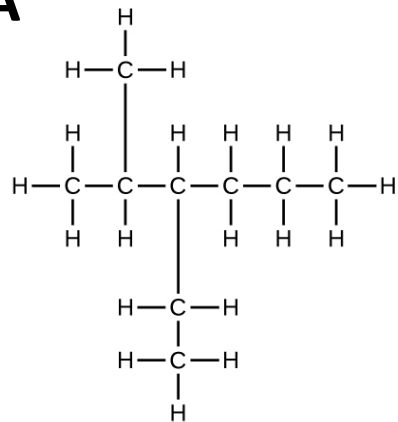


## Due dates:

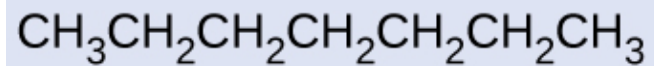
- I know nothing about your midterm!
- Review 6 is this week (but we cannot answer questions about midterm); please attend Dr. Sirjoosingh and Prof. Kakkar office hours

# Q1: Draw the following expanded (Kekule) or condensed structures as skeletal diagrams

**A**

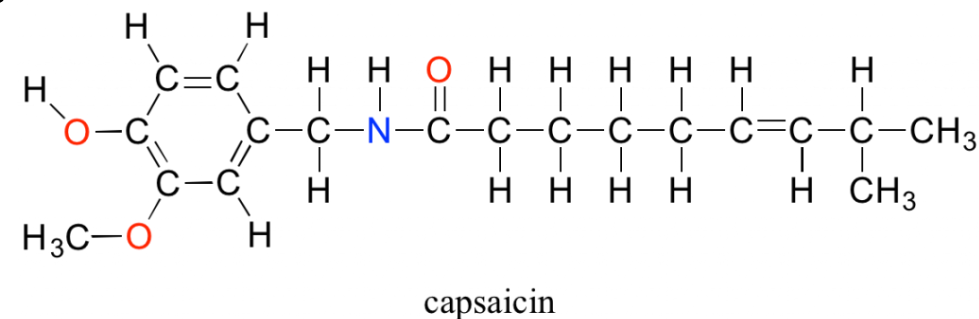


**B**



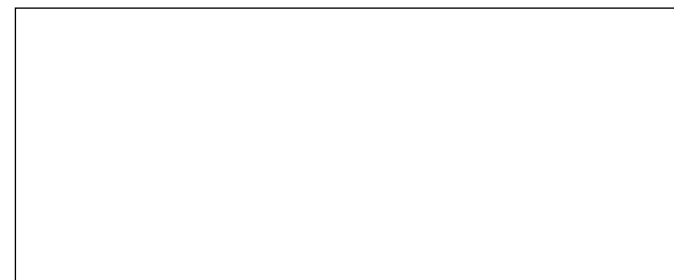
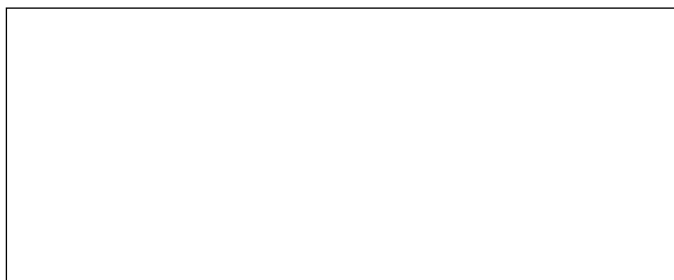
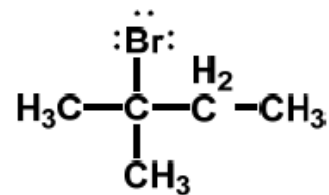
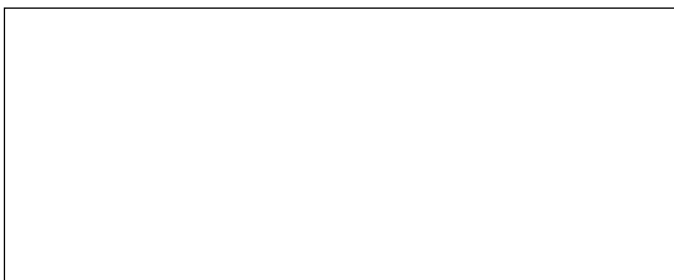
Note that this was not the ideal condensed structure. The completely corrected condensed structure would be CH3(CH2)5CH3

**C**

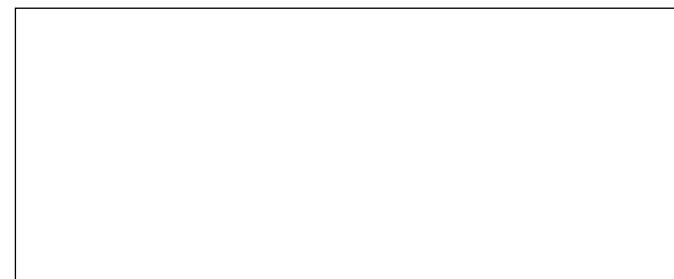
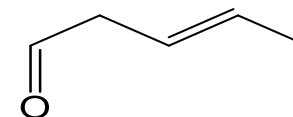
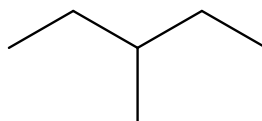
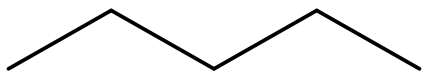


## Q2: Draw the following structures as described

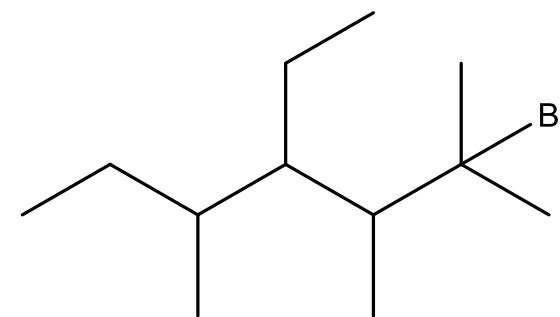
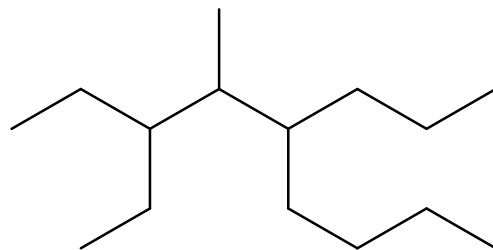
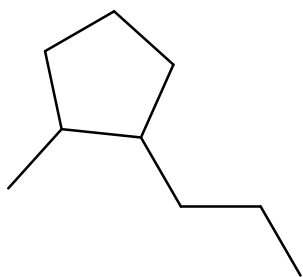
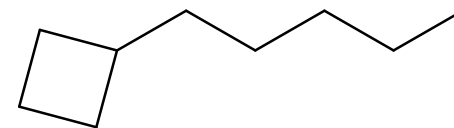
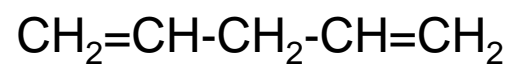
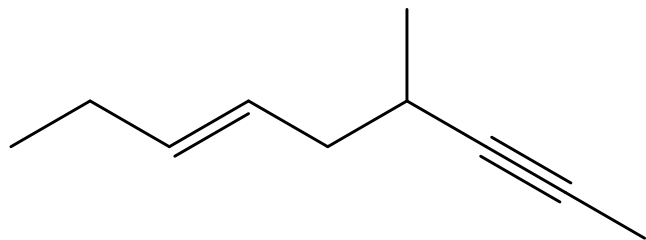
### As skeletal structures



### As expanded structures



Q3: Provide the correct name for the following



## Q4: Draw the following molecules

3-ethylcyclobutene

1,2,3,4-tetramethylcyclobuta-1,3-diene

2-pentene (or pent-2-ene)

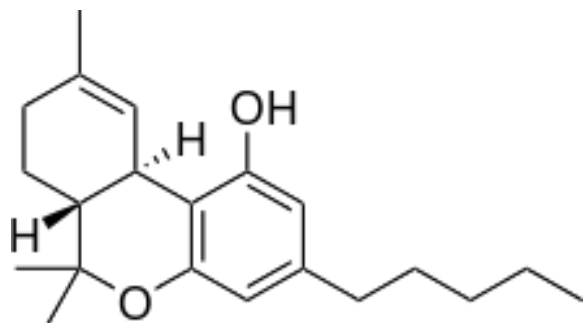
methylcyclopropane

5-fluoro-4,5-dimethylhex-1-ene

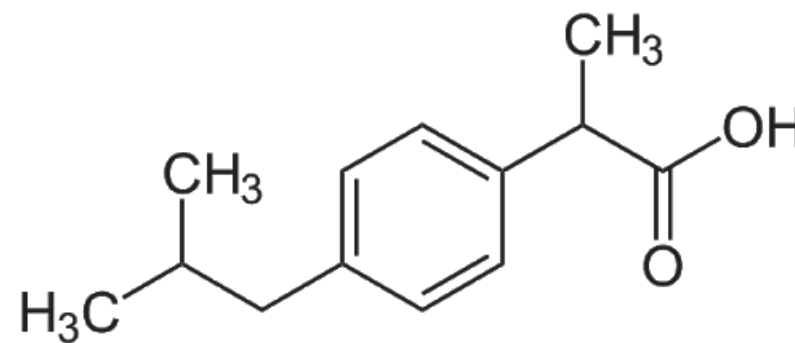
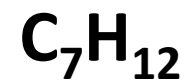
3-ethyl-4-methylhexane

1,3-hexdien-5-yne

Q5: Calculate the units of unsaturation in the following molecules



THC



Ibuprofen (Advil)

Q6: Draw the structure of a cycloalkene with 6 carbons (1 double bond). Determine the chemical formula. How many degrees of unsaturation?

Q7: Identify these aromatic molecules using IUPAC. Indicate if the substituents are meta, ortho, or para to each other

