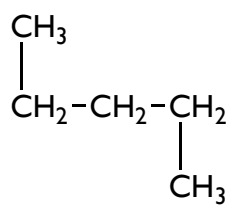


**Principles of Organic Chemistry  
In-Class Problems - Chapter 12 (Alkanes)**

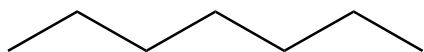
- I. Use the general formula for alkanes to determine the following:
  - a. What is the molecular formula of an alkane that has 7 carbon atoms?
  
  
  
  
  
  
  - b. What is the molecular formula of an alkane that has 10 hydrogen atoms?
  
  
  
  
  
  
  - c. What is the molecular formula of an alkane that has 26 hydrogen atoms?
  
  
  
  
  
  
  
  
  
  
2. Draw the following:
  - a. an expanded structural formula for propane
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  - b. the condensed structural formula for hexane
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  - c. the line-bond formula for hexane

3. Name the following molecules:

a.



b.



c.

