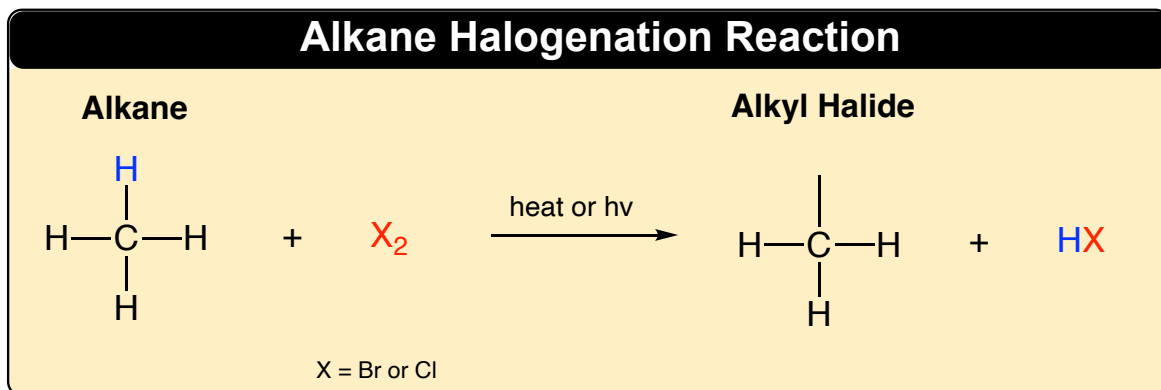


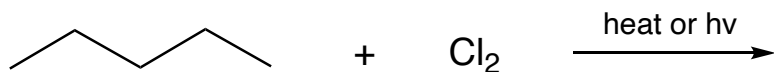
CONCEPT: ALKANE REACTIONS

- Alkanes are the _____ reactive of the hydrocarbons.
 - Common types of reactions: (1) _____; (2) _____.
- (1) **Combustion:** hydrocarbons react with O_2 to produce CO_2 and water.
- (2) **Halogenation:** a _____ reaction where Br_2 or Cl_2 replaces one of the Hs.
 - Reaction requires _____ or _____ light (hv) to break the bond between _____ (X).



- Alkanes can be _____ substituted: only _____ H is substituted; or _____ substituted: _____ than 1 H is substituted.

EXAMPLE: What are all the major products of the following halogenation reaction? (Assume monosubstitution.)



PRACTICE: Determine the major product(s) of the following alkane reaction. (Assume monosubstitution.)

