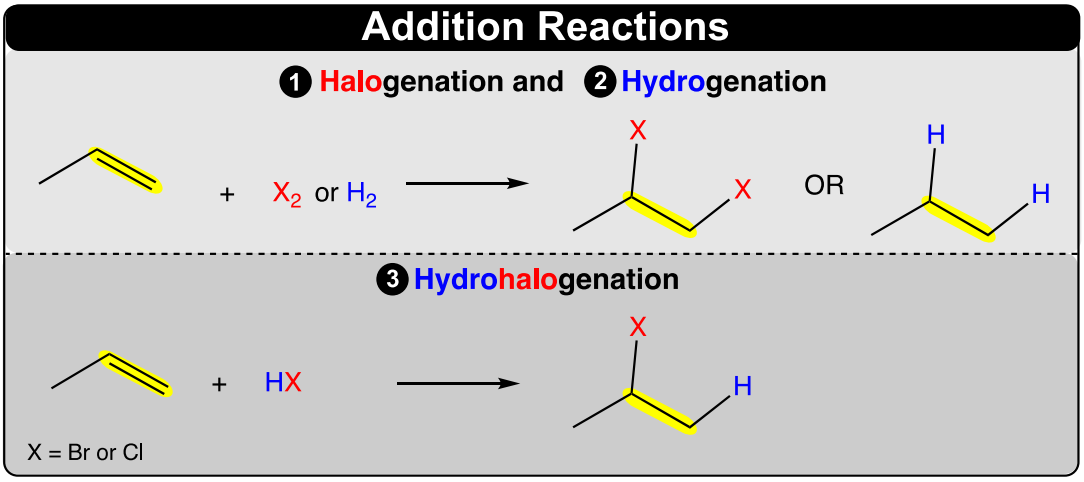
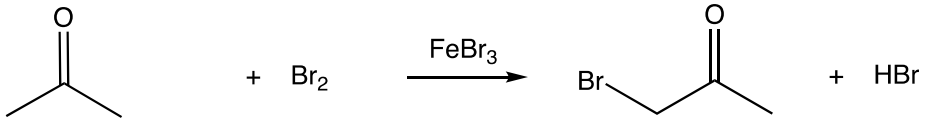
CONCEPT: INTRO TO ADDITION REACTIONS

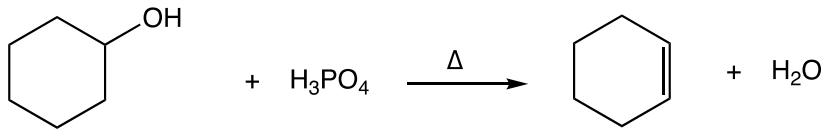
- Alkenes and alkynes undergo _____ *reactions*.
  - □ **Addition Reaction:** addition of atoms to _____, results in double or triple bond _____.
    - ____ bond(s) are broken, new _____ bonds are formed.
- There are ___ major types of addition reactions: (1) Halogenation, (2) Hydrogenation, (3) Hydrohalogenation.

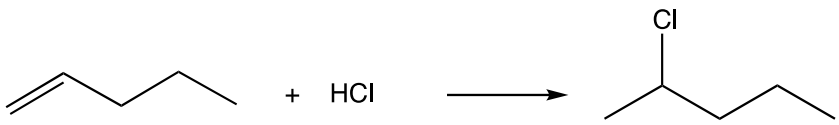


  - □ _____ of reagent needed for every π bond.
    - Double bond = __ σ & __ π bond(s)
    - Triple bond = __ σ & ___ π bond(s).

EXAMPLE: Which of the following represents an addition reaction?

a) 

b) 

c) 

PRACTICE: How many moles of reagent are needed for the addition of the following alkyne?