Organic Chemistry 212 Prof J. Walker Notes: Chapter Three - Alkenes and Alkynes

Alkenes and alkynes are unsaturated hydrocarbons

Draw line angle formulas for:
4-methyl 1- hexene
3-methyl 1-butyne
trans-2 - butene
2-sec-butyl-1-butene
Write formal names for the following compounds whose common names are given:
ethylene
propylene
isobutylene
What is a diene, a triene and a polyene?
CH ₃ CH ₃ CH ₃ CH ₃
И ОН
Vitamin A (retinol)
How many carbons are in retinol?
Draw an isoprene unit:
What is a terpene?

The four characteristic reactions of alkenes are:

hydrochlorination (hydrohalogenation)

hydration

bromination (halogenation)

hydrogenation

Terminology:

regioselective

Markovnikov's rule

Analysis:

How can bromine be used to determine if an organic compound is saturated or unsaturated?

Polymers:

What are some differences between LDPE and HDPE polymers?

Notes about polymers:

Given the monomer – name the polymer:

ethylene

vinyl chloride

styrene