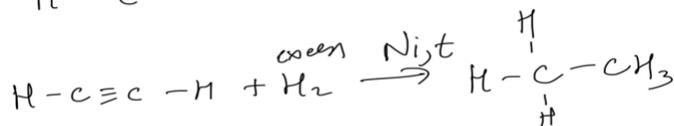
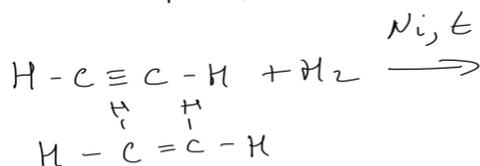
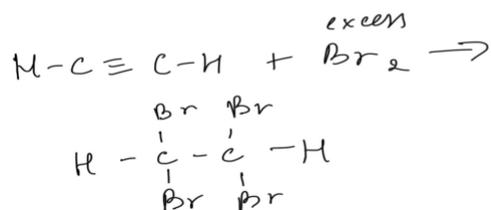
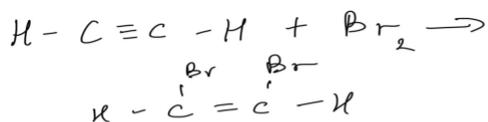


HW 17, chemistry 2

When we talked about alkenes, we mentioned that they can have cis, trans isomers (see HW 16). What does Cis – Trans really mean? They make sense if a molecule has two different sides like left/right or up/down. If there is only one line, there are no sides.

ALKYNES

Alkynes have $C\equiv C$ (triple bond) as functional group. The alkynes, like alkenes and alkanes, are non-polar molecules. Their intermolecular forces are only weak London forces (weak interaction between temporary dipoles). They are unsaturated, the chemical formula is C_nH_n . They participate in addition reactions.



Questions:

1. Describe a chemical test that can be used to distinguish between butane and 2-butyne.
2. can 1-pentene and 2-pentyne have Cis-Trans isomers?