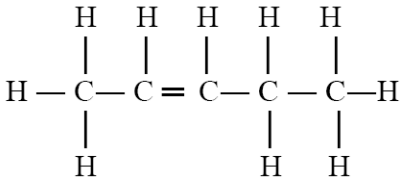
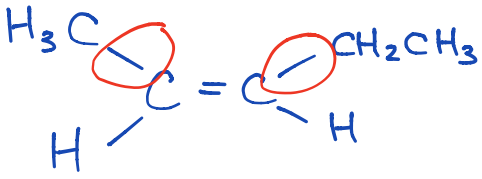
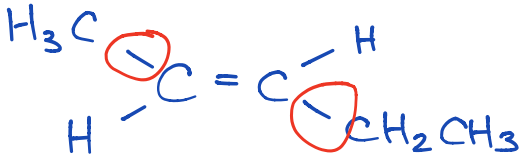
Naming and Drawing Alkenes Worksheet and Key

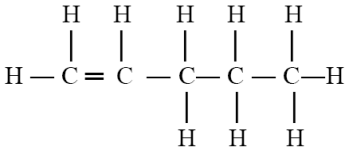
1) Draw and name the ***cis*** and ***trans*** condensed structure of:



cis condensed structure:	***trans*** condensed structure:
	
name: cis - 2 - pentene	name: trans - 2 - pentene

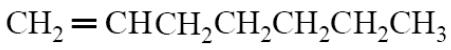
2. Name the following alkenes (include cis- or trans- for the alkenes that when appropriate)

a)



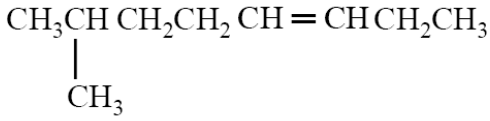
Name: 1 - pentene

b)



Name: 1-heptene

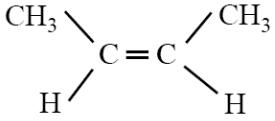
c)



Name: 7 - methyl - 3 - octene

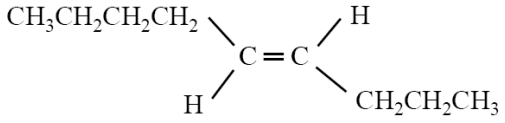
Be careful to correctly identify carbon #1……

d)



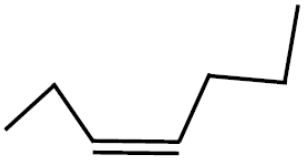
Name: cis - 2 - butene

e)



Name: trans - 4-nonene

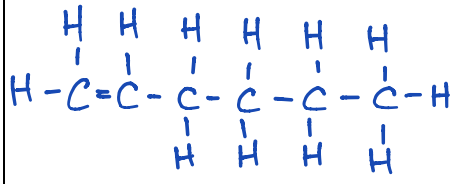
f)



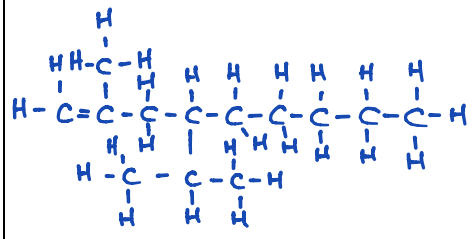
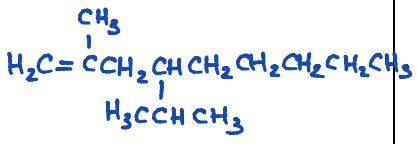
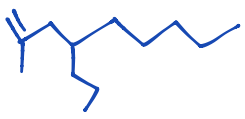
Name: cis - 3-heptene

3. Draw the line bond, condensed, and skeletal structure of the following alkenes.

a) 1-hexene

line-bond structure	condensed structure	skeletal structure
	$H_2C=CHCH_2CH_2CH_2CH_3$	

b) 2-methyl-4-~~iso~~propyl-1-nonene

line-bond structure	condensed structure	skeletal structure
		

c) cis-2-hexene

line-bond structure	condensed structure	skeletal structure