

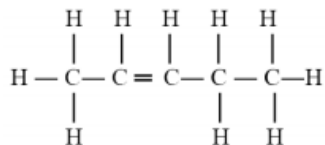
Cinnamaldehyde

# Functional Groups-2

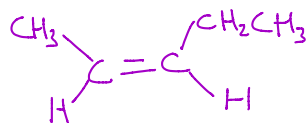
Name:

Date:

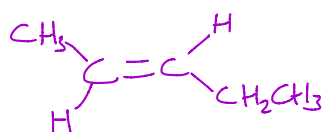
1. Draw and name the *cis* and *trans* condensed AND skeletal structure of:



*cis* structure



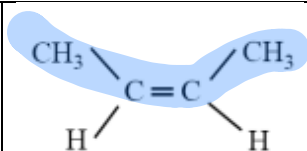
*trans* structure



Name: *cis-2-pentene*

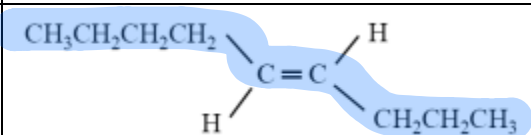
Name: *trans-2-pentene*

2.



*cis-2-butene*

3.



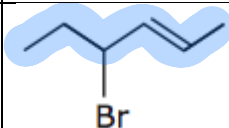
*trans-4-nonene*

4.



*cis-3-heptene*

5.



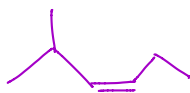
*4-bromo-trans-2-hexene*

6.



*cis-2-hexene*

7.



*cis-2-methyl-3-hexene*

8.		2-bromo-3,3-dimethyl -1-butanal
9.		2-propanone
10.		4-ethyl-1-hexanal
11.		3-methyl-pentanal
12.		3-ethylhexanal
13.		2,2-dimethyl-3-pentanone
14.		4,4,5-trifluoroheptanal
15.		5-chloro-4-ethyl-6-methyl-3-octanone

16. What is the smallest ketone possible? Explain.

propanone if the carbonyl group is on an any smaller molecule it is an aldehyde!

17. Determine the errors in the following names and give the correct name

a. 1-butanone

aldehyde! 1-butanal

b. 3-pentanal

ketone! 3-pentanone

c. 3-ethyl-2-methylbutanal

where is the C=O ??