

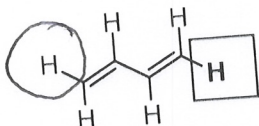
Quzi 5a

Name:

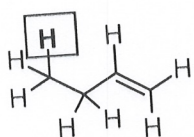
Signature:

The following quiz will start 5 minutes into your class and will last 30 minutes. Good luck!

1. For the following molecule, indicate which proton is equivalent to the hydrogen highlighted (4 points)

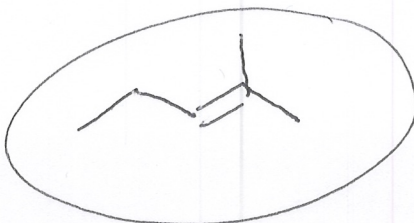
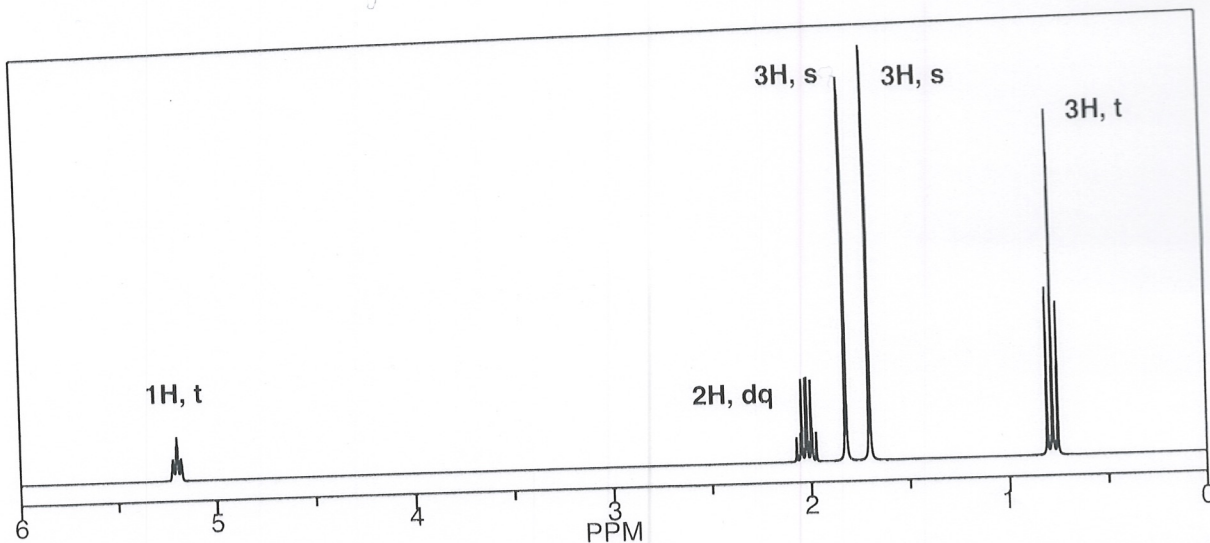


2. What would be the splitting pattern of the proton highlighted (4 points)



Triplet

3. Draw a structure consistent with the following ^1H NMR that has the molecular formula C_6H_{12} .



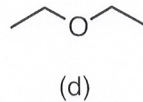
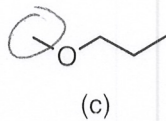
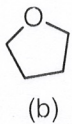
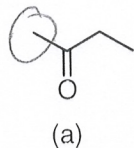
Quiz 5b

Name: Key

Signature

The following quiz will start 5 minutes into recitation and you will have 30 minutes to complete it. Good luck!

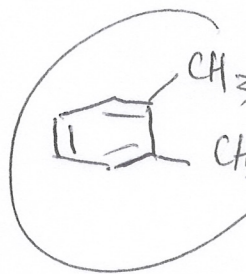
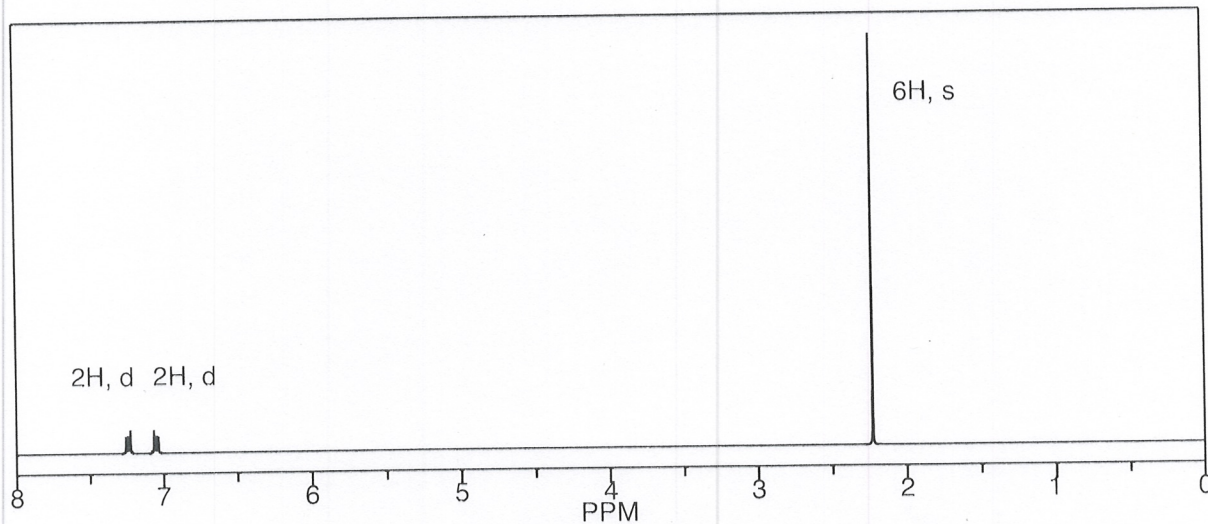
1. For the following two questions, refer to the isomers below



1a. Which molecule(s) would have peaks that show up as singlets by $^1\text{H NMR}$ a, c

1b. Which molecule(s) would have 3 sets of equivalent protons? a

2. Show a molecule with the molecular formula C_8H_{10} that is consistent with the following spectra.



Quiz 5c

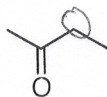
Name:

Key

Signature

The following quiz will start 5 minutes into recitation and you will have 30 minutes to complete it. Good luck!

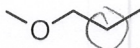
1. For the following two questions, refer to the isomers below (8 points, 4 points each)



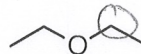
(a)



(b)



(c)

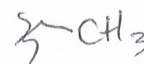
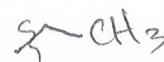
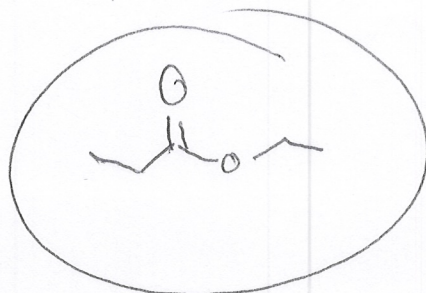
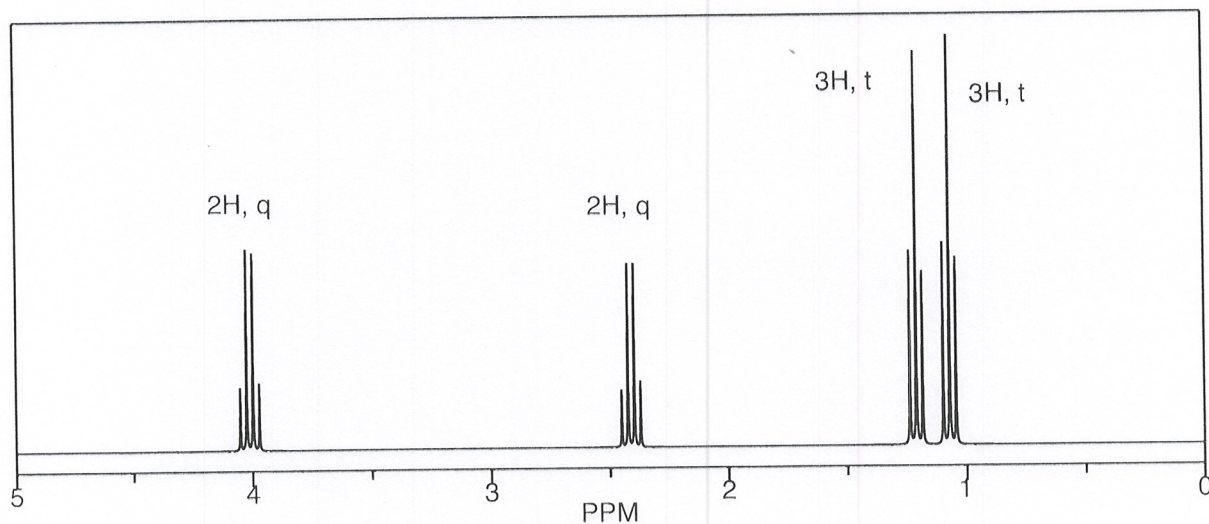


(d)

1a. Which molecule(s) would have peaks that show up as quartets by $^1\text{H NMR}$ d, c, a

1b. Which molecule(s) would have 2 sets of equivalent protons? b, d

2. Show a molecule with the molecular formula $\text{C}_5\text{H}_{10}\text{O}_2$ that is consistent with the following spectra (12 points).



Quiz 5d

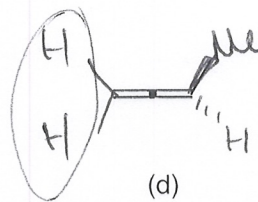
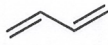
Name:

ky

Signature

The following quiz will start 5 minutes into recitation and you will have 30 minutes to complete it. Good luck!

1. For the following two questions, refer to the isomers below (8 points, 4 points each)



(a)

(b)

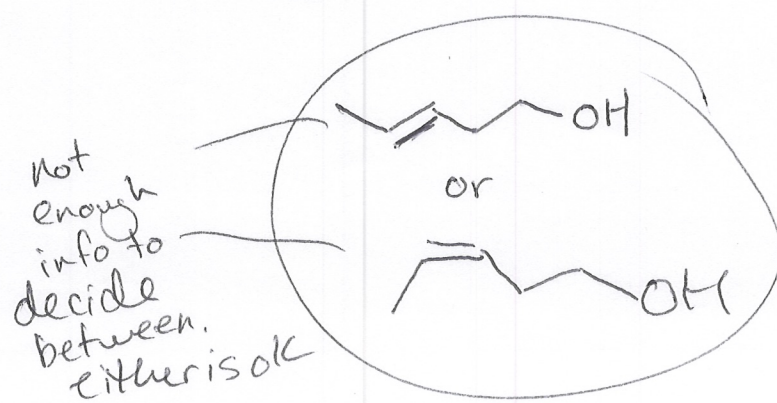
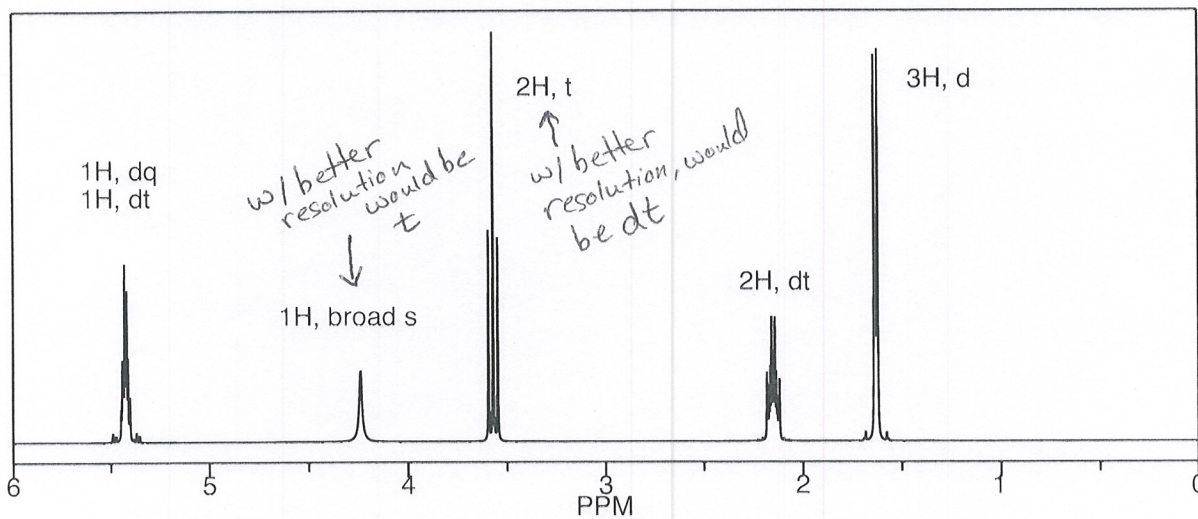
(c)

(d)

1a. Which molecule(s) would have peaks that show up as singlets by 1H NMR c, d

1b. Which molecule(s) would have 2 sets of equivalent protons? a, c

2. Show a molecule with the molecular formula $C_5H_{10}O$ that is consistent with the following spectra (12 points).



Quiz 5e

Name:

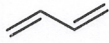
Signature

The following quiz will start 5 minutes into recitation and you will have 30 minutes to complete it. Good luck!

1. For the following two questions, refer to the isomers below (8 points, 4 points each)



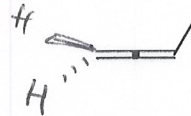
(a)



(b)



(c)



(d)

1a. Which molecule(s) would have peaks that show up as doublets by ^1H NMR d, a

1b. Which molecule(s) would have 3 sets of equivalent protons? b, d

2. Show a molecule with the molecular formula $\text{C}_5\text{H}_{10}\text{O}$ that is consistent with the following spectra (12 points).

