

Quiz 5e

Name:

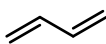
Signature

*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)



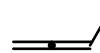
(a)



(b)



(c)



(d)

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

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

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).

