Organic I Recitation Handount (Mass Spec, 11/21 - 11/26)

1) Using a mechanism, show how the following fragmentations take place.

a)
$$e^ +$$
 $+$ $m/z = 56$

2) Predict the fragments associated with the following compounds ionization peaks.

fragmentation patterns of mz = 100, 99, 57, 44, 29. What is the compound?

a)
$$mz = 70, 55$$
 $mz = 82,54$ $mz = 72, 57, 45$ $mz = 127, 112, 58$

3) A molecule with the molecular formula $C_6H_{12}O$ shows a strong absorbtion by IR at 1700 cm⁻¹, and has