## Quiz 2. Tuesday Morning (Friday Conversion)

Name:

1) Show the missing structure in the following equation. (3 points)

b) The  $pK_a$  of acetone is 22, while the pKa of propane is 51. Using the structures you drew in 1a), explain this difference in  $pK_a$  (3 pointss).

Lower pKa means more acidic. The conjugate base of acetone has resonance stability, and so it is more stable then the conjugate base of propane, which does not have any resonance stabilization.

2) The following is an elimination reaction. Would this reaction clasify as an E1 or E2 reaction? Using curved arrows, show a mechanism that is consistent with your classification (4 points)

