Quiz 1

1. Circle the weakest acid. Justify your choice in one sentence.



1. In boxes B and C, draw two other resonance forms for the structure in box A.





Using >, <, or = signs, rank the three structures shown above: \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

1. For the molecule shown below, provide the requested information in the blanks to the right.

 Bond type(s): (a)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Bond type(s): (b)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Hybridization: (c)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Atom geometry: (c)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. For the reaction shown below (1) Draw in products. (2) Write pKa values under the appropriate structures. (3) Use an arrow to show which side of the equilibrium is favored.



