## Quiz 1

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


either accepted w/ explar
2. In boxes $B$ and $C$, draw two other resonance forms for the structure in box $A$.


A


B

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

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


Bond type(s):
(a) $\qquad$

Bond type(s):
(b) $\square$

Hybridization:
(c) $\qquad$

Atom geometry: $\qquad$
4. 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.


