Week 2 Worksheet

1. Give the pKa value for the following compounds and rank them from least to most acidic (1 being most).

2. Draw 1,3-bromo-4-fluoro-1-methylcyclopentane. Label all carbons connected to halide atoms as 1°, 2°, or 3°. Which of these would have the highest reactivity? The lowest (hint: which halide is a poor L.G.)?

3. Rank the following leaving groups from worst to best (1 being best).

4. Identify the problems with the way the curved arrows are drawn in the following reactions. If there are no problems, note that.