1. Give the product(s) of the following reaction.

\[
\text{Br}_2 \quad \text{NaCl} \\
\text{Br} \quad \text{Br} \\
\text{Br} \quad \text{Cl}
\]

2. **Circle** the most acidic compound. Put a **box** around the least acidic.

(a) 
(b) 

3. Draw three more good resonance structures for the cation shown. Show electron-pushing arrows which convert the first to the second and so on. It might help to put in the hydrogens.

4. Define the word "**stereocenter**". It should only take one sentence.

An atom at which interchange of 2 groups gives a stereoisomer.

5. Indicate **R** or **S** for each stereogenic center.

6. Draw \((R,R)-1,2\)-dibromocyclohexane.