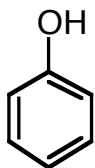
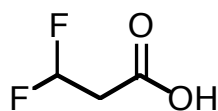
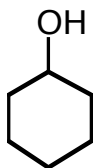


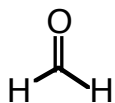
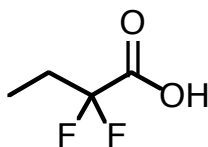
1. For each pair of molecules, circle the *stronger acid* and provide a reason for your decision. Use pictures as well as words in your explanation.



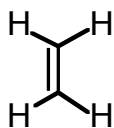
vs.



vs.



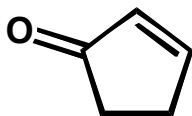
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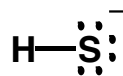
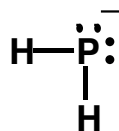
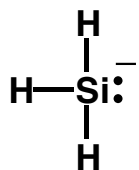
2. For each pair of molecules, circle the *stronger acid* and provide a reason for your decision. Your reason should include pictures as well as words.



3. Identify the most acidic proton(s) on the molecule below. Provide a rationale for your selection. Use pictures as well as words in your explanation.



4. Circle the strongest base from the 3 choices below. Provide a rationale for your selection.



5. There are 9 structural isomers for the molecular formula C_3H_6O . Draw all 9 isomers in the boxes below. Then answer the questions that follow.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Place a *check mark* in the boxes that contain molecules capable of being hydrogen bond donors as well as hydrogen bond acceptors.
- Place an "x" in the boxes that contain molecules that possess angle strain.
- Circle the box that contains the most acidic molecule.