Bio 210A

Functional Groups Challenge

1. Which of the molecules contain hydroxyl groups? (There are 6)

2. Which molecules contain a carboxyl (acidic) group? (There are 4)

3. Which molecules contain an amino (basic) group? (There are 4)

4. Which molecules contain both a carboxyl (acidic) group and an amino (basic) group? (There are 3)

5. Which molecule contains or is itself a phosphate group? (There are 2)

6. Is the phosphate group a basic or an acidic molecule and why?

7. Which molecules contain a long hydrocarbon chain? (There are 2)

8. In relation to their interaction with water, what property does the presence of a long hydrocarbon chain confer on a molecule?

9. Which molecules contain a sulfhydryl or thiol group? (There are 2)