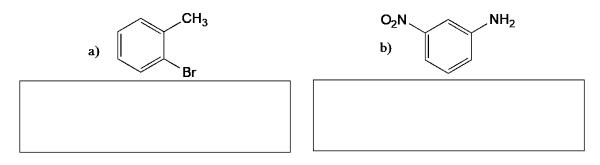
25 Points

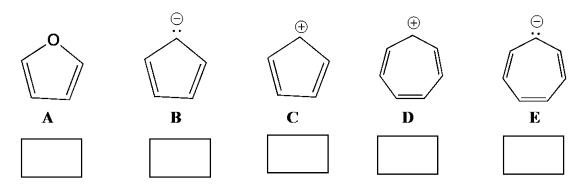
CEM143, Quiz 3, Summer 2018

NAME

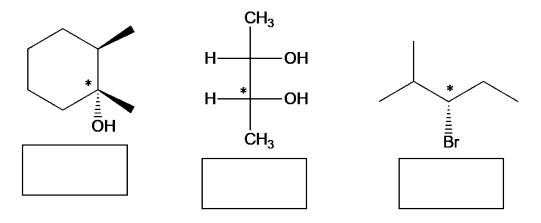
1) (4 Pts) Name the following aromatic compounds.



2) (5 Pts) Label the following compounds as Aromatic (A), or Not Aromatic.



3) (3 Pts) Assign R/S-configuration to the stereogenic ceters designated by a "*".



4) (2 Pts) The correct molecular formula for 1-methyl-1-phenylcyclohexane is:
A) C₁₃H₁₈ B) C₁₂H₁₆ C) C₁₃H₂₆ D) C₁₂H₂₆ E) C₁₂H₁₈ F) C₁₃H₂₀

(8 Points) Use Figure 1 to answer questions 4-7.

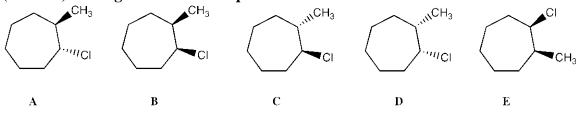


Figure 1

5. (2 Pts each) What is the stereochemical relationship between Compounds A &

B in **Figure 1**?

- A) Enantiomers
- B) Diastereomers
- C) Identical
- D) Conformational isomers

6. (2 Points) What is the stereochemical relationship between

Compounds **B & E** in **Figure 1**?

- A) Enantiomers
- B) Diastereomers
- C) Identical
- D) Conformational isomers

7. (2 Points) What is the stereochemical relationship between

Compounds **D & E** in **Figure 1**?

- A) Enantiomers
- B) Diastereomers
- C) Identical
- D) Conformational isomers

8. (2 Points) What is the stereochemical relationship between

- Compounds A & C in Figure 1?
- A) Enantiomers
- B) Diastereomers
- C) Identical
- D) Conformational isomers

9. (3 pts) Provide an efficient synthesis od **Compound Z** tarting with benzene and any other necessary reagents.

