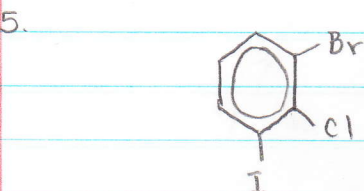
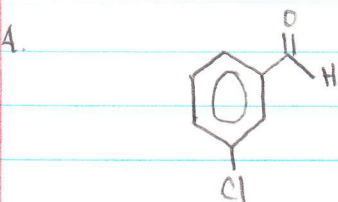
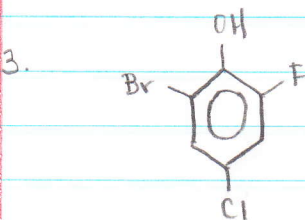
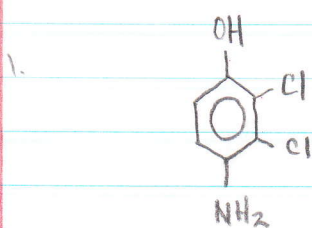


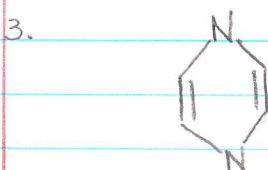
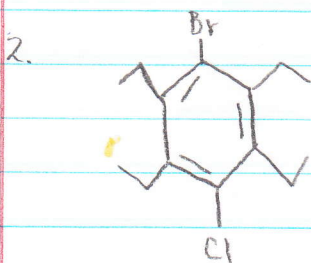
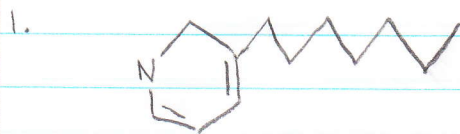
Name the following:



Draw the following:

1. ~~2,4~~-dimethylaniline 3,5-
2. 2,3-dinitro-4,6-dibromostyrene
3. 2-chloro-3-ethyl-6-bromoacetophenone
4. ~~2,4,5,6~~-tetramethylbenzaldehyde 2,3,4,6-
5. m-bromobenzoic acid

Are the following aromatic?

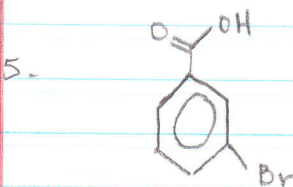
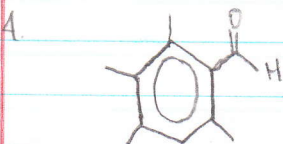
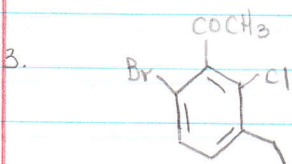
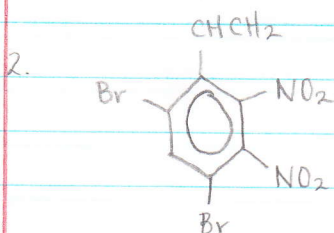
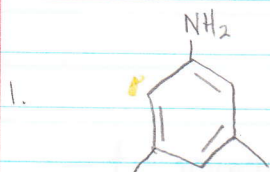


Answers:

Name the Following:

- 1 4-Amino-2,3-dichlorophenol
- 2 o-Propylaniline
- 3 2-Bromo-4-chloro-6-fluorophenol
- 4 m-Chlorobenzaldehyde
- 5 1-Bromo-2-chloro-3-iodobenzene

Draw the Following:



Are the following aromatic?

1. This molecule is aromatic because it has 6 pi electrons, 4 from the 2 double bonds and 2 from the sp^3 hybridized nitrogen.

NO

$$4n + 2 = 6$$
$$n = 1$$

Conjugated System

2. This molecule is aromatic because of the benzene ring.

3. This molecule is antiaromatic because it has 4 π electrons, since 4 is a multiple of 4 therefore it cannot be aromatic.