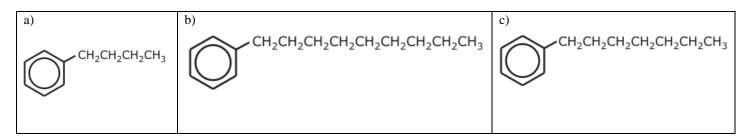
Worksheet 7: Benzene

- 1. Define each term.
 - a. aromatic hydrocarbon b. delocalized electron c. resonance
- 2. Provide a IUPAC name for each monosubstituted benzene compounds.



3. Draw a structural formula for each compound.

| a) hexylbenzene | b) propylbenzene | c) pentylbenzene |
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4. Provide a IUPAC name for each disubstituted benzene compounds.

5. Draw a structural formula for each compound.

| nethylbenzene |
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6. For each compound, draw the structural formula or provide an IUPAC name.

| a) 2-phenylbutane | b) 1,1-diphenyl-2-bu | tene | c) |
|-------------------|----------------------|------|------------|
| | | | \bigcirc |
| | | | |
| | | | CH₂CH₂CH₂ |
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7. Draw and name all isomers (cyclic and non-cyclic) for C_5H_{10} .