

## CONCEPT: NAMING OTHER SUBSTITUENTS

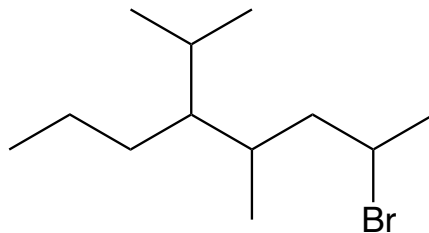
### Alkyl Halides

location-substituent-parent

- Halogens attached to a carbon chain are named as **substituents**.

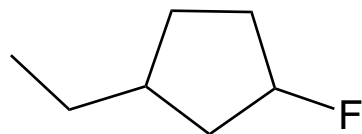
□ F \_\_\_\_\_, Cl \_\_\_\_\_, Br \_\_\_\_\_, I \_\_\_\_\_

**EXAMPLE:** Determine systematic name of the following alkane.



**STEP 1-6:** Same steps as previous naming topics.

**PRACTICE:** Name the following compound.



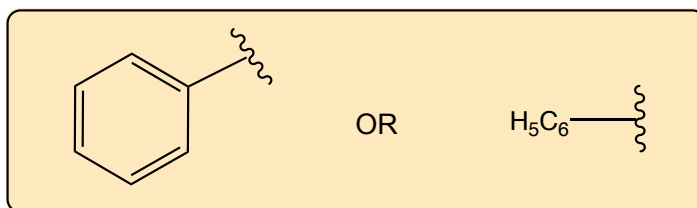
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### Phenyl Group

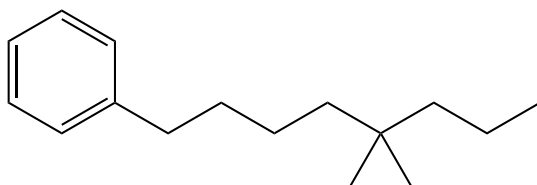
- A \_\_\_\_\_ ring as a **substituent** on a parent chain.

location-phenyl-parent

- Parent chain can be alkane, alkene, or alkyne, as long as its longer than \_\_\_\_ carbons.



**EXAMPLE:** Determine systematic name of the following alkane.



**STEP 1-6:** Same steps as previous naming topics.

**PRACTICE:** Draw a structure for the following alkane: 3-tert-butyl-1-phenylheptane.