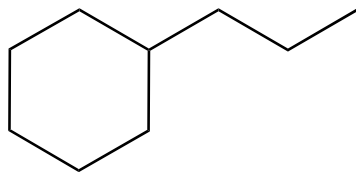


## CONCEPT: NAMING CYCLIC ALKANES

- The rules for naming cyclic alkanes are very similar to naming alkanes with **substituents**.

location-substituent-cycloparent

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



**STEP 1:** Assign name to the alkane \_\_\_\_\_ (parent) according to the prefixes.

- ☐ Add prefix \_\_\_\_\_ to the name of the alkane ring.

**STEP 2:** Assign name to all the substituents.

**STEP 3:** Start numbering the chain from the closest substituent.

- ☐ If only one substituent, location is \_\_\_\_\_ necessary.
- ☐ If a tie between substituents, compare the next closest substituent.
- ☐ If still a tie, number in alphabetical order.

**STEP 4-6:** Repeat steps from previous naming topic.

**PRACTICE:** Give a systematic name for the below compound.

