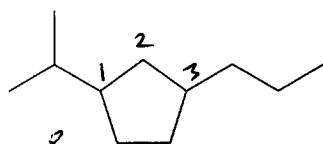
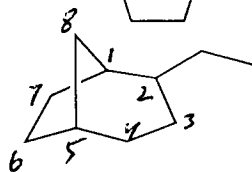


SIGNATURE (required): required

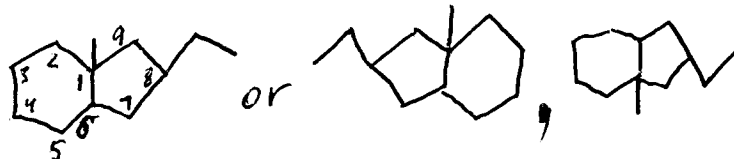
1. (9) Give either the IUPAC name or the correct structure for each of the following compounds:



1-isopropyl-3-propylcyclopentane

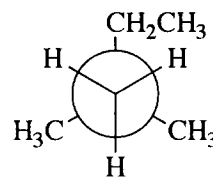
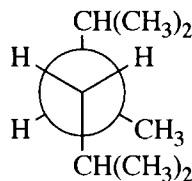
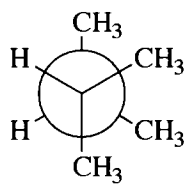
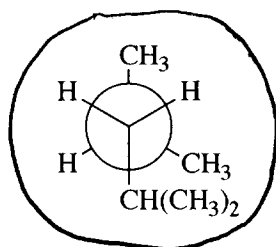
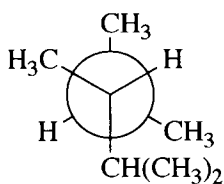


2-ethylbicyclo[3.2.1]octane

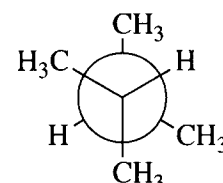
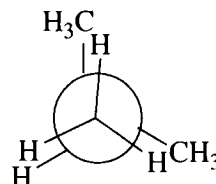
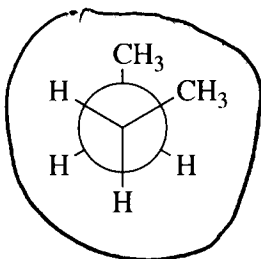
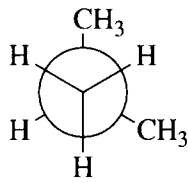
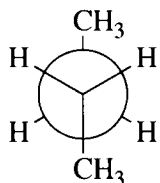


1-methyl-8-ethylbicyclo[4.3.0]nonane

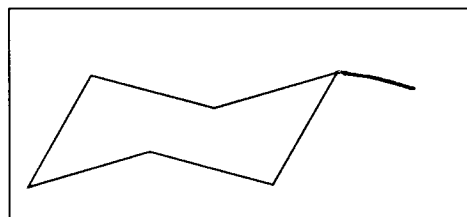
2. (4) Which of the following Newman projections represents 2,4-dimethylpentane?



3. (2) Which of the following Newman projections represents the *gauche* conformation of butane?

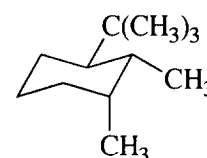
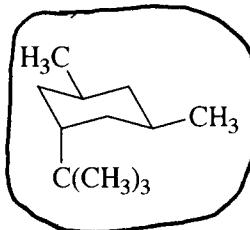
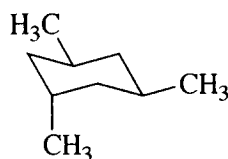
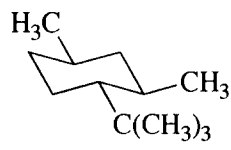
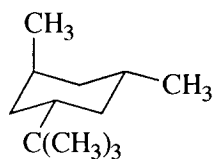


3. (3) Finish a three dimensional drawing of the **most stable** chair conformation of **methylcyclohexane**:



or -CH<sub>3</sub>

4. (4) Circle the conformation that has the *largest* **diaxial** interactions:



5. (3) Circle the compound that has a **triple bond** in the parent chain:

2-pentyne

propanone

butylcyclohexane

propenal

ethanol

3-hexenol

butanoic acid