* A. (3.0 pts.) Give the condensed structural formula and IUPAC name for three (3) of the possible isomers of C₆H₁₄.

B. (3.0 pts.) Give the condensed structural formula and IUPAC name for four (4) of the possible isomers of C₆H₁₂.

C. (4.0 pts) Give the condensed structural formula and IUPAC name for the major organic product(s) expected for each of the following reactions.

**1. CH₂=CHCH₂CH₃ + Cl₂ →
   UV light
2. Hexane + Cl₂ →
   Fe
3. Benzene + Cl₂ →
   Ni
   \[ \text{CH₃} \]
4. CH₂=CCH₂CH₃ + H₂ →

D. (1.0 pts.) Each of the following names is incorrect. In the blank provided, give the correct name.

1. 2-ethylbutane ______________________________
2. 5-hexene ______________________________