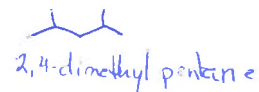
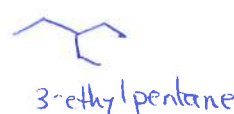
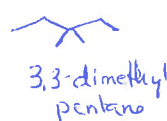
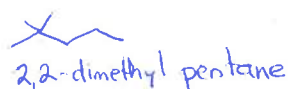
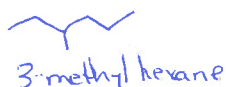
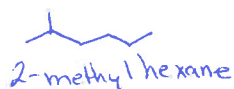


Pretest 2 CHM 1032

Naming

1. What is the chemical formula for lithium phosphate? Li_3PO_4
2. What is the chemical formula Iron(III) carbonate? $\text{Fe}_2(\text{CO}_3)_3$
3. What is the name of the compound with the chemical formula CrO ? Chromium(II)oxide
4. What is the chemical formula for dinitrogen pentoxide? N_2O_5

Problem 2 Isomers. Please draw and name two isomers of heptane, C_7H_{16} .
Heptane is $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$.



Problem 3 (10 points).

Please draw the Lewis structure for NO_2^- . Please show all formal charges.

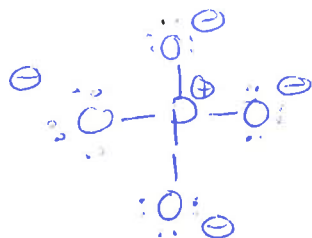


What is the electron pair geometry of the central N? trigonal planar

What are the bond angles about the central N? 120°

Problem 4 (10 points).

Please draw the Lewis structure for PO_4^{3-} . Please show all formal charges.



What is the electron pair geometry of the central P? tetrahedral

What are the bond angles about the central P? 109.5°