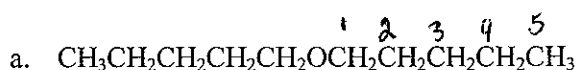
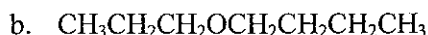


1) Name the following ethers.



dipentyl ether OR 1-pentoxypentane



butylpropyl ether OR 1-propoxybutane



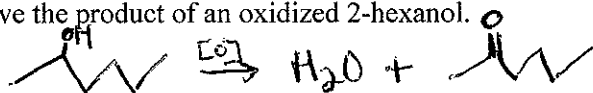
Ethyl methyl ether OR 1-methoxyethane

2) Describe oxidation and reduction reactions.

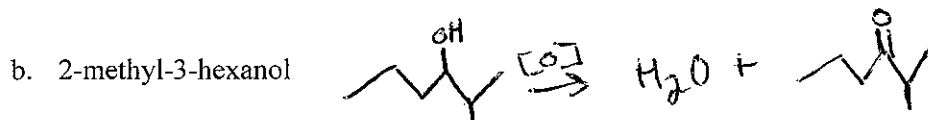
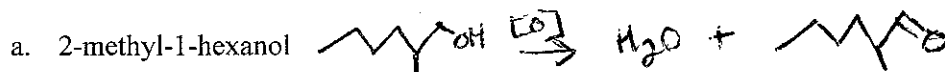
oxidation is the loss of H's; reduction is the gain of H's
OR the gain of O OR the loss of O

3) $\frac{1^\circ}{\text{(Primary)}}$ alcohols oxidize to aldehydes.

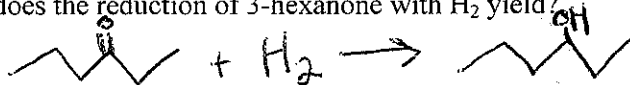
4) Give the product of an oxidized 2-hexanol.



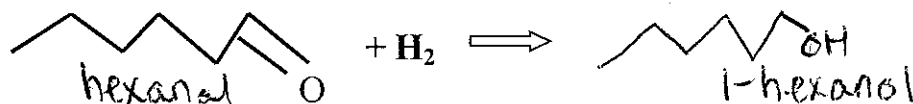
5) Give the complete oxidation reaction for the following.



6) What does the reduction of 3-hexanone with H_2 yield?



7) Complete the reaction. Give the name of the reactants and product.



8) Which of the following have the highest boiling point?

a. butane

b. butanal

c. 1-butanol - because alcohol ~~has~~ ^{does} the most H-bonding, which increases boiling point

d. butanone