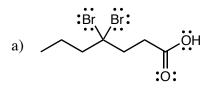
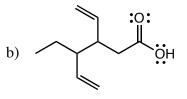
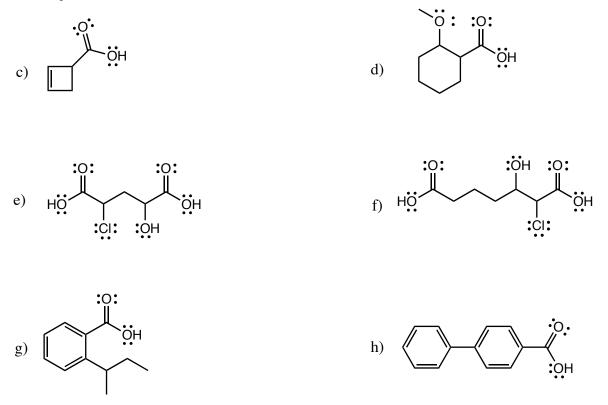
Homework Chapter 22 Chem 2320

	Name	
1. Fill in the blanks of the following	statements.	
fatty	v acids contain one carbon-car	bon double bond.
Fats are esters of glycerol and three	e	
diet.		_ are essential fatty acids needed in the
The process of	gets rid of C=C	I's and makes liquid fats into solid fats.
Partial hydrogenation can create detrimental to health.		which are unnatural and may be
Soap works by forming	in which the c	organic tails are on the inside and the
Some good sources of omega-3 fat	ty acids are	
2. Draw structures for the following	compounds.	
a) Trichloroacetic acid	b) 2-methylmalonic acid	c) 3-cyclopentylpentanedioic acid
d) <u>m</u> -chlorobenzoic acid	e) <u>Z</u> -3-hexenoic acid	f) 1-methylcyclopentanecarboxylic acid

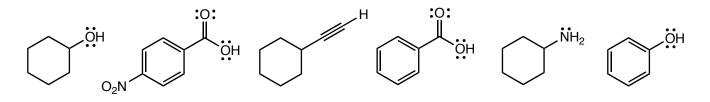
3. Name the following compounds.



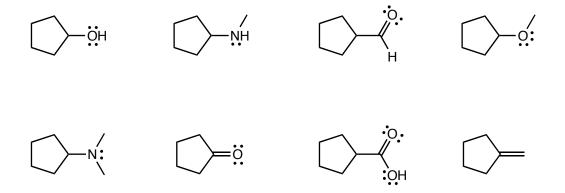


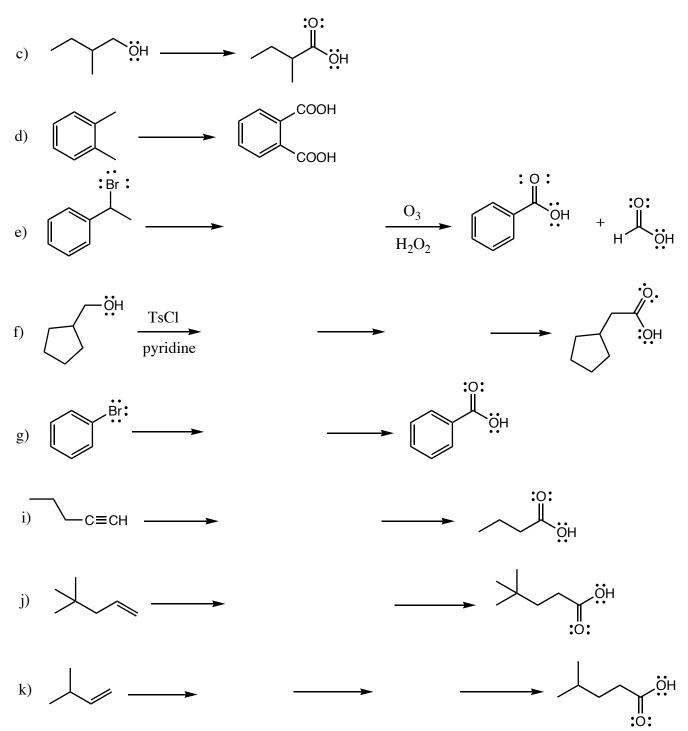


4. Give the pK_a of each of the following compounds <u>as acids</u> and rank them in order of <u>decreasing</u> acidity.

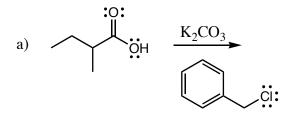


5. Circle any of the following compounds which can form hydrogen bonds with water. Then draw a square around any of the compounds which can form hydrogen bonds with itself.

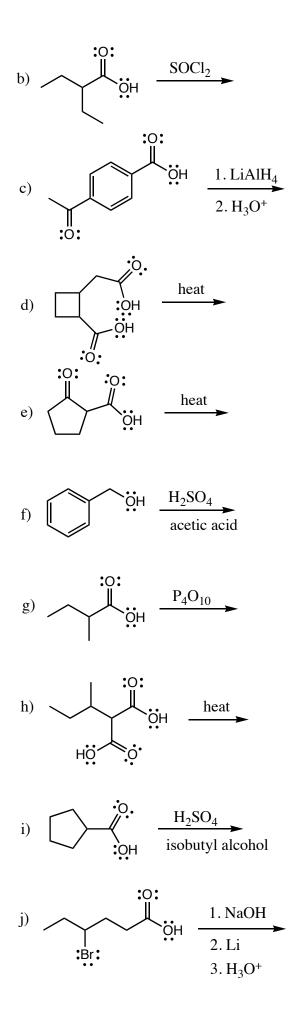


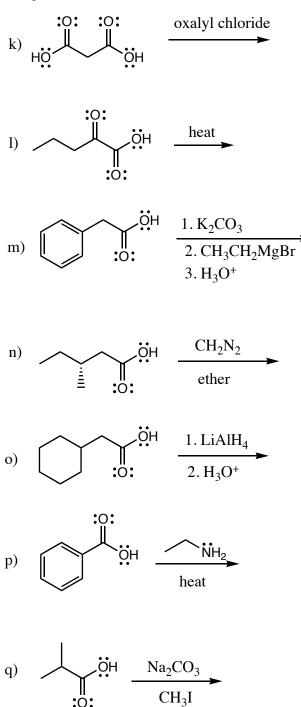


9. Give the products of the following reactions.



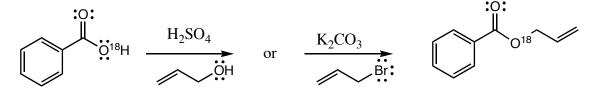
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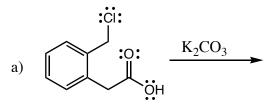


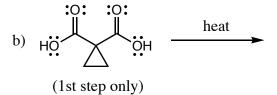
:0:

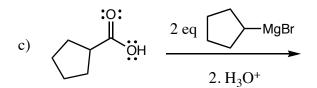
10. Which of the following reactions will give the desired isotopically labeled compound? Hint: consider the mechanism of both reactions. Explain your choice!

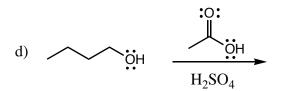


11. Show the step-by-step mechanism for the following reactions. Account for all electron pairs, charges, etc.









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12. Show a reaction sequence (reagents and products) that will accomplish the following transformations. Reactions from previous chapters will be used.

