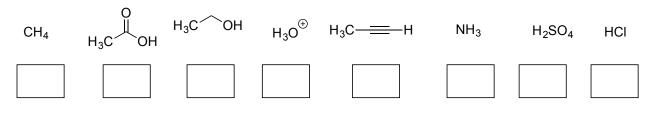
Worksheet 0 -- Chem 51C -- Jarvo

Most of these concepts are review from prior quarters of Chem 51

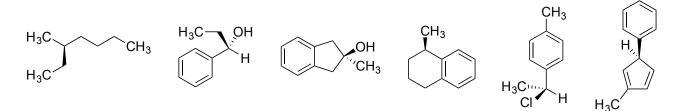
1. Provide pKa's for the following compounds. Arrange them on a number line according to their pKa



-10

50

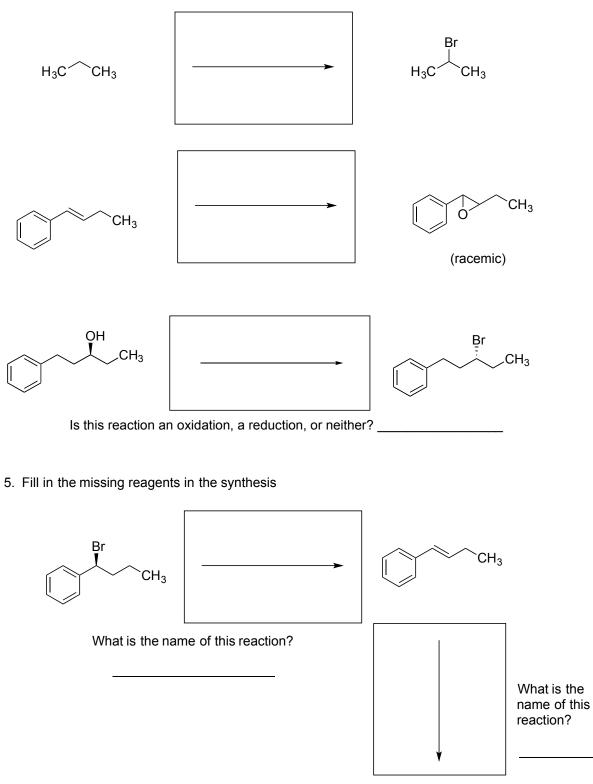
2. Assign the absolute configuration of the following compounds:



18

3. Fill in the periodic table with the mising elements He Helium 4.00 13 14 15 16 17 10 В Ne Boron 10.81 20.18 13 14 15 16 17 18 Silicon 28.09 Ρ Al Ar Uuminun 26.98 Argon 39.95 30.97 32 31 Selenium 78.09 ۲K Ge As Ga Germaniu 72.61 Arsenic 74.92 Krypton 84.80 69.73 50 49 51 52 53 Sn Sb Xe Xenon 131.29 Те In Tin 118.71 Tellurium 127.6 114.82 121.76

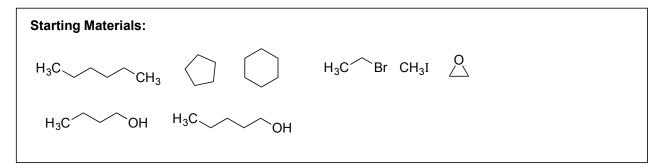
4. Fill in the boxes with the appropriate starting material, reagent or major product.



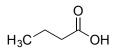
+ CH₃ Н

6. Propose syntheses of the targets below. **All carbons** must come from the starting materials provided, you can use any reagent you wish.

HINT: COUNT YOUR CARBONS!!!



Target A.



Target B.

