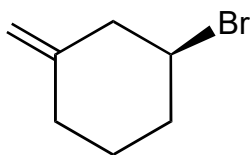
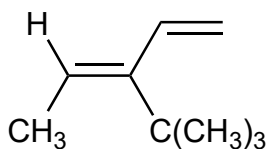
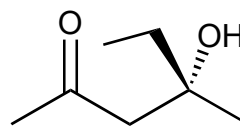


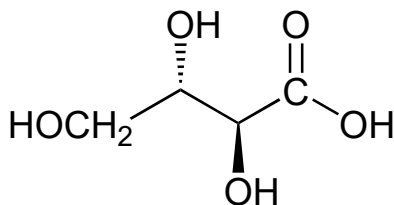
5A. (9 pts) Identify the appropriate configuration (e.g., *R*, *S*, *E*, *Z*) for each of the following compounds. Show your work to receive credit - you must show the priority of each group, etc.



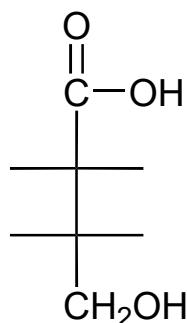




5B. (4 pts) Complete the Fischer projection for compound A.

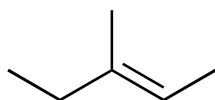


A



A

5C. (3 pts) Determine whether the following compound is **chiral** (yes/no) and whether or not it is **optically active** (yes/no).



chiral? _____

optically active? _____

5D. (8 pts) Answer the following questions, using the given Fischer projection of compound X.

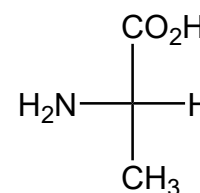
What is the configuration of compound X ? (*R* or *S*) _____

Is compound X chiral? (yes or no) _____

Does compound X have an enantiomer? (yes or no) _____

What do you expect for the optical rotation $[\alpha]$ for compound X? _____

a) dextrorotatory; b) levorotatory; c) neither; d) can't tell



X