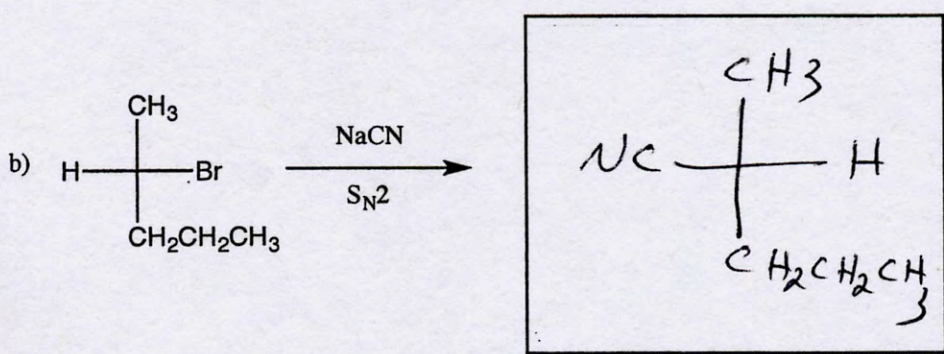
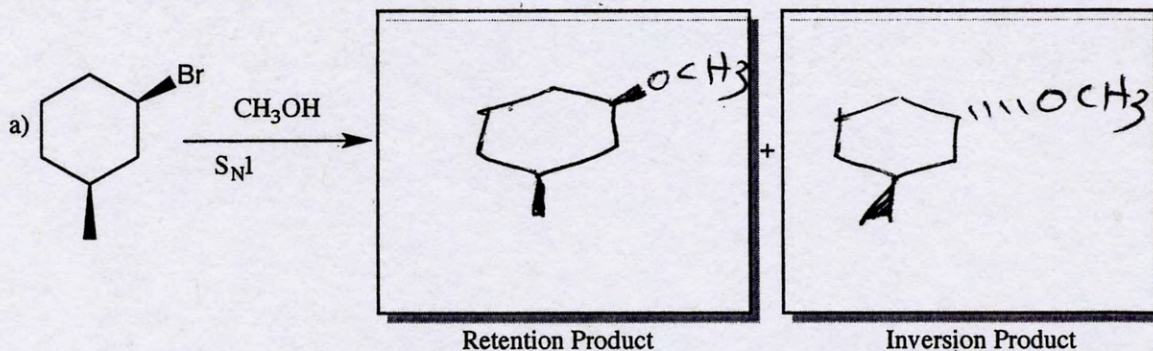
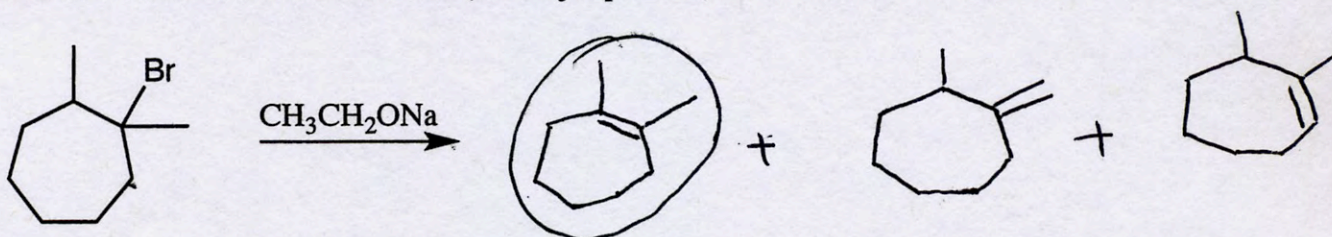


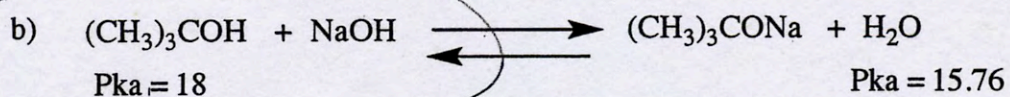
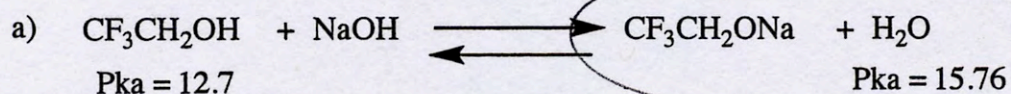
1) (9 Points, 3 each box) Complete the following nucleophilic substitution reactions.



2. (4 Points) Draw all possible elimination products for the following E2-reaction and place a circle around the most stable one (the major product).

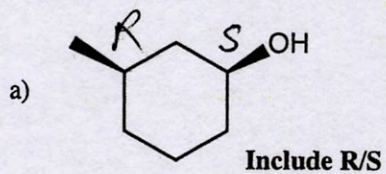


4. (4 Points, 2 pts. Each) Place a circle around the side that is favored at equilibrium.

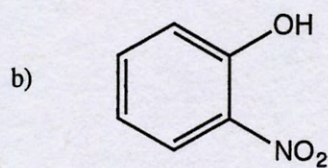




5. (4 Points, 2 pts. Each) Name the following compounds:



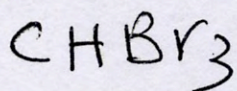
(1S,3R)-3-methylcyclohexanol



meta-nitrophenol

6. (4 Points, 2 pts. Each) Draw the structure for the following compounds:

a) Bromoform



b) Vinyl chloride

