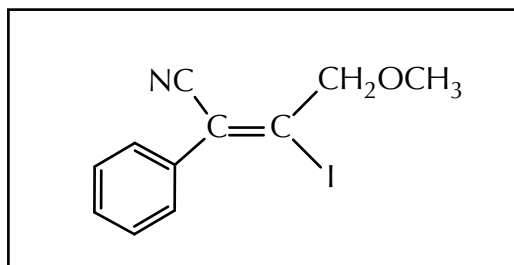
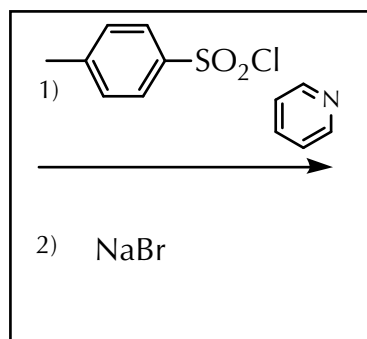


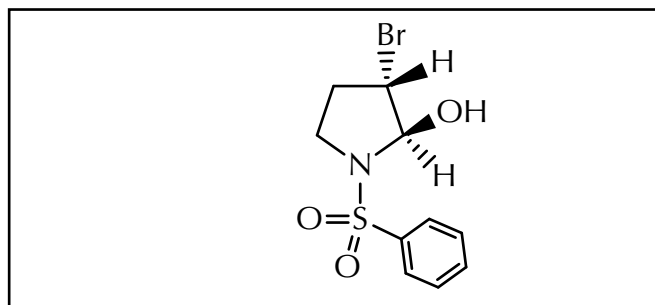
(a)



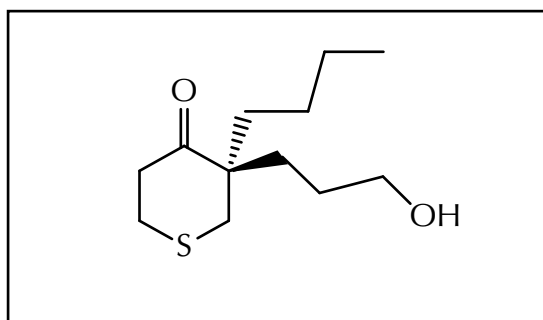
(b)



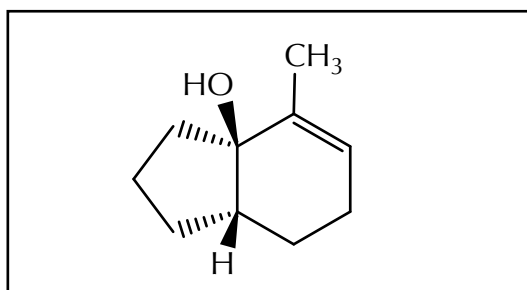
(c)



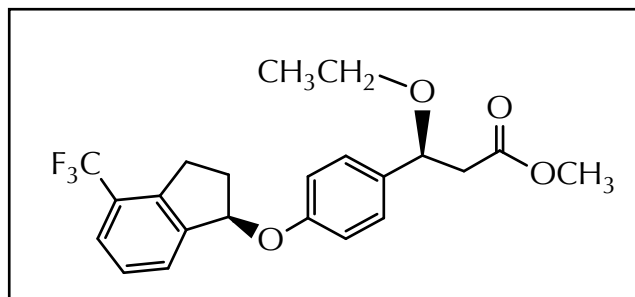
(d)



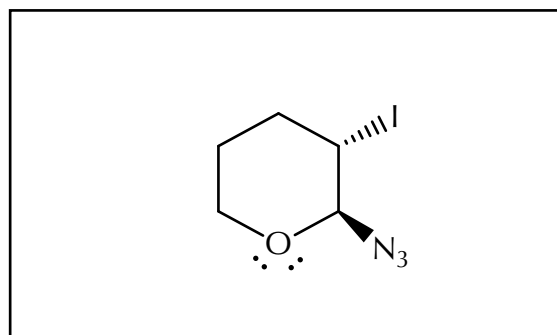
(e)



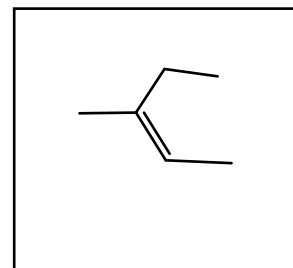
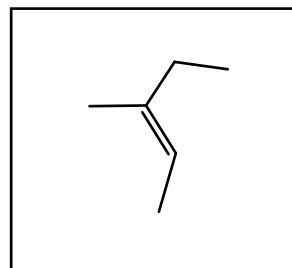
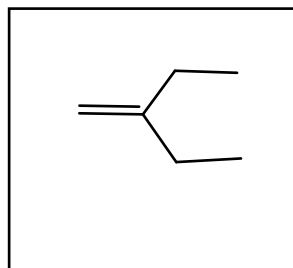
(a)



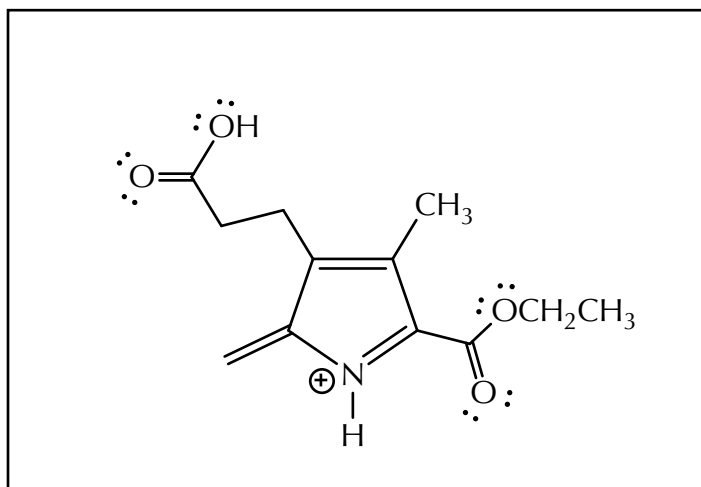
(b)



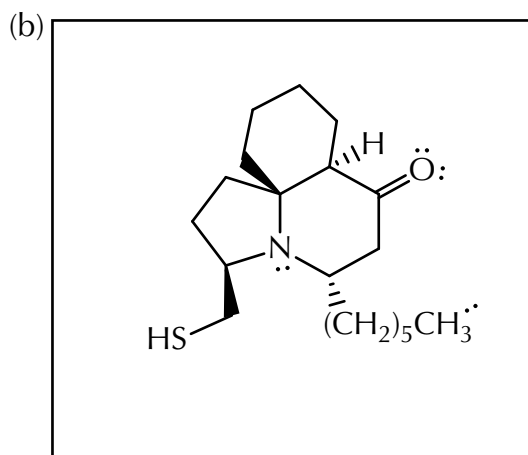
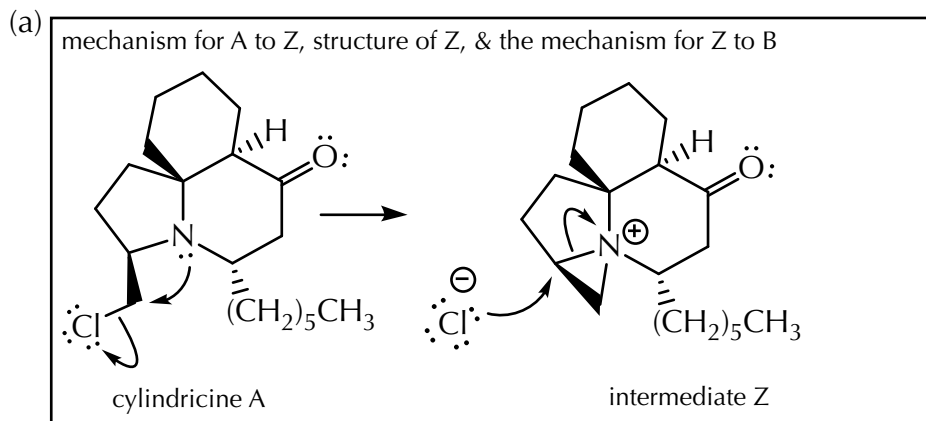
(c)



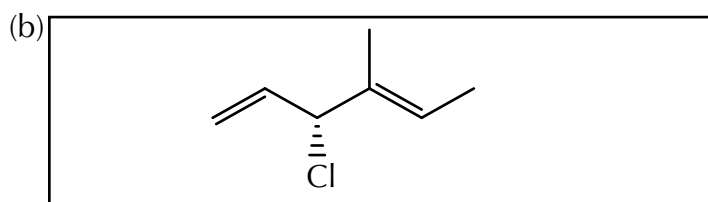
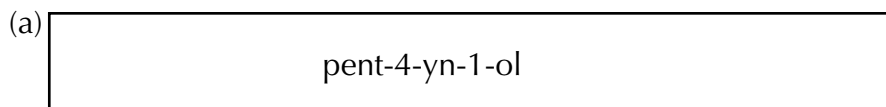
(d)



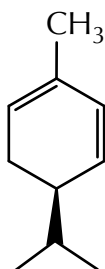
A.



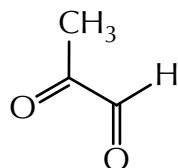
B.



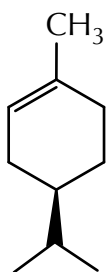
(*R*)-(-)- α -phellendrene, $C_{10}H_{16}$
one stereoisomer



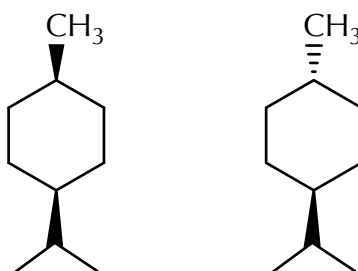
compound D, $C_3H_4O_2$
 1H -NMR: 2 signals (3:1)
 ^{13}C -NMR: 3 signals



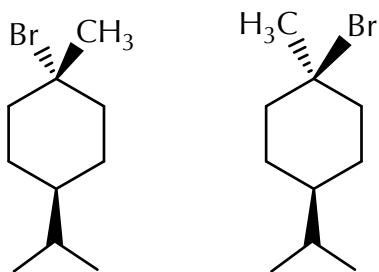
compound E, $C_{10}H_{18}$
one stereoisomer



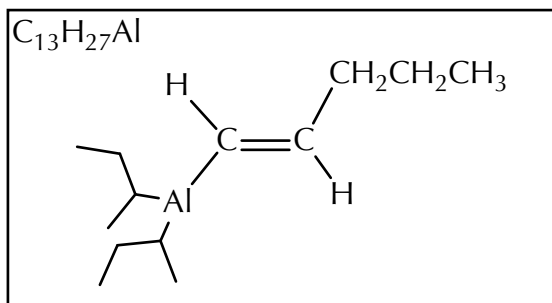
F and G are both $C_{10}H_{20}$ & diastereomers
Draw both compounds: F and G



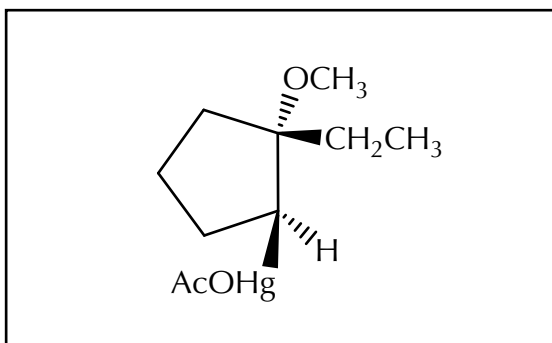
I and J are both $C_{10}H_{19}Br$ & diastereomers
Draw both compounds: I and J



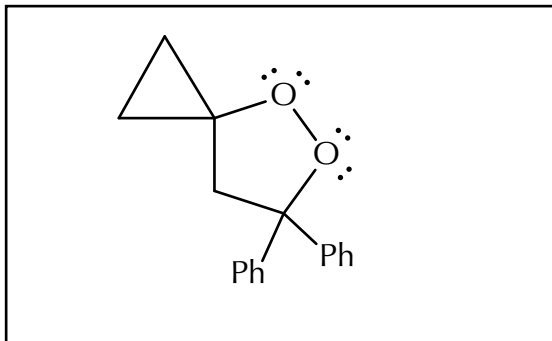
A.



B.



C.



D.

