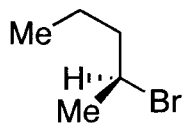
Chem 109A
Prof. Bode
Fall 2005, MWF 11-12

Name Key

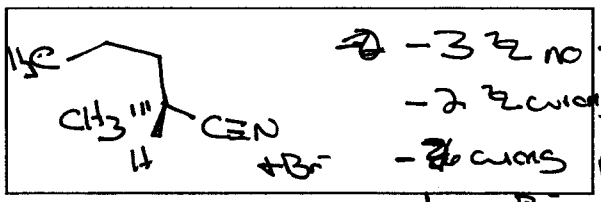
Perm No. 007

Quiz 3 (33 points)

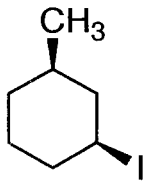
1. Draw the products of the following reactions.(21 points)

(a) 

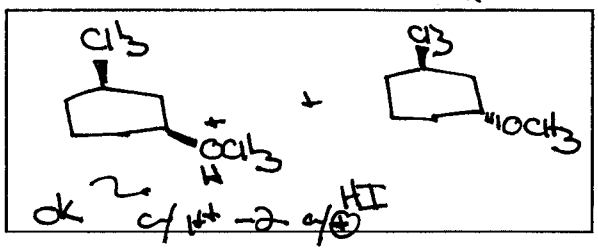
+ $^{-}$:C≡N: $\xrightarrow{S_N2}$



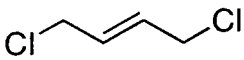
-3 no stereochem
-2 wrong stereochem
-2 wrong product
-1 no Br

(b) 

+ MeOH $\xrightarrow{S_N1}$

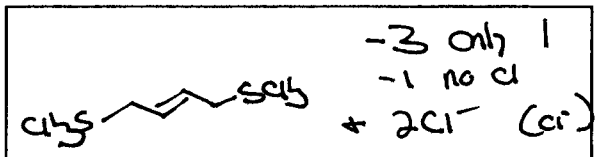


-1 squiggly bond
-2 wrong

(c) 

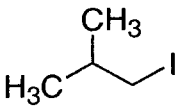
1 equivalent

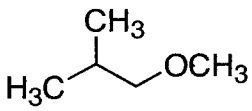
+ CH_3S^- excess $\xrightarrow{S_N2}$



-3 only 1
-1 no Cl
+ 2Cl⁻ (Cl⁻)

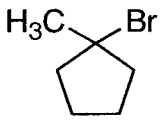
2. Identify the following reactions as either S_N1 or S_N2. (12 points)

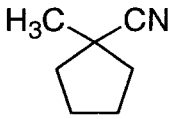
(a) 

+ CH_3OH $\longrightarrow$ 

+ HI

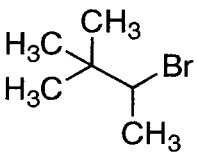
S_N2

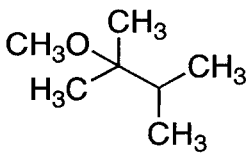
(b) 

+ $^{-}$:C≡N: $\longrightarrow$ 

+ $^{-}$Br

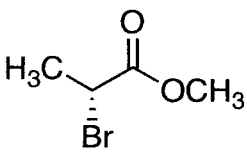
S_N1

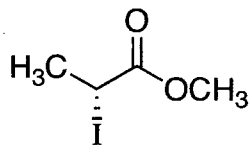
(c) 

+ CH_3OH $\longrightarrow$ 

+ HBr

S_N1

(d) 

+ $^{-}$I $\longrightarrow$ 

+ $^{-}$Br

S_N2