Name:	Block: Date:	
Organic Chemistry: Reactions Workshee	et	
For the following reactants:		
1. Predict the products of the reaction.	2. Include any required catalysts.	3. Indicate the type of reaction.
Reaction		
H ₃ CCH=CHCH=CHCH ₂ CHCH ₃ + CH ₃	HCl	
Hint: partial		
Type:		
$H_3CCH=CHCH_2CH_3 + H_2O$	→	
Туре:		
Type.		
$H_3CCH=CHCH=CH_2 + H_2$	\rightarrow	
Hint: full		
Туре:		
$H_3CCH_2CH_2CH_3 + Cl_2 \longrightarrow$		
Туре:		
$H_3CCH_2CH_2CH_2CH_3 + O_2(g)$	→	
Туре:		
+ HCl		
	→	
Туре:		

Product: bromocyclopentane

Product: 1-Iodo-3-ethyl-heptane

Product: 3-bromo hexane (from alkane)

Product: 3-bromo hexane (from alkene)

Show all of the steps for the hydration of 3-octene. Label oxonium ion and carbocation.