E2 Mechanism Work through each problem before looking at the answer key below.

Consider only the E2 reaction. If more than one product is possible, indicate which is preferred.	
$\begin{array}{ccc} \operatorname{CH_3} & \operatorname{CH_3CH_2ONa} \\ \operatorname{H_3C-C-OTs} & \overline{\operatorname{CH_3CH_2OH}} \\ \operatorname{CH_3} & \Delta \end{array}$	
CH ₃ CH ₃ ONa CH ₃ OH hot	
CI CH ₃ CH ₂ ONa EtOH warm	
Br CH ₃ CH ₂ ONa 70°C EtOH	
B_r $CH_3)_3COH$ Δ	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
CH ₃ CH ₂) ₆ CH ₂ OH warm	
OTS CH ₃ CH ₂ ONa EtOH warm	
CH ₂ CH ₃ EtOH 70°C	

ANSWER KEY

Consider only the FO reaction. If more than one product is possible indicate which is professed	
Consider only the E2 reaction. If more than one product is possible, indicate which is preferred.	
CH ₃ CH ₃ CH ₂ ONa	CH ₂
H ₃ C-C-OTs CH ₃ CH ₂ OH	H ₃ C—С
CH ₃	Ċн ₃
CH ₃ CH ₃ ONa	CH ₃ CH ₃
CH ₃ OH	+ \/
Cl hot	preferred
CI CH ₃ CH ₂ ONa	
	+ + -
EtOH warm	preferred unlikely
waiiii	
CH ₃ CH ₂ ONa	preferred
Y \	+ \
Br 70°C EtOH	
V OK	
Br (CH ₃) ₃ COH	
Δ	'
CH ₃ CH ₂ ONa	CH ₃ CH ₂
EtOH	+ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	preferred
1	F
ONIO	
ONa	CH ₂
$\ \ \ \ \ \ \ \ \ \ \ \ \ $	
warm	
OTs CH ₃ CH ₂ ONa	
EtOH warm	
	CH ₂ CH ₃
EtOH 70°C	
∣ <u> </u>	only
CH ₃	Стн _з
	<u> </u>