Problem 6-1.

(a) CH_3-BI + $KOH \rightarrow CH_3OH$ + KBI.

By is changed to OH

This ran Is substition.

(b) (43 cH2-B) -> C4= CH2 + 4Br.

H and by is removed.

This rxn is elimnation.

 $(C) \qquad H_2 C = cH_2 + H_2 \rightarrow cH_3 - cH_3$

Two Hs are added.

This ten is addition

Ci electrophille

cl: mdeophilic.

Problem 6-6

Problem 6-7.

2- Methyl propone

> 1 Secondary curbo cartlon

Snother ran mechanism

primary carbocathe.

Problem 6-8.

Problem 6-9

$$\rightarrow \begin{array}{c} 1 \\ -0 - 6 \\ \end{array}$$

$$\begin{array}{c} 1 \\ -0 - 6 \\ \end{array}$$

$$\begin{array}{c} 1 \\ -0 - 6 \\ \end{array}$$

$$\begin{array}{c} 1 \\ -0 - 6 \\ \end{array}$$

C=0 is electron withdrawing group.

So the carbocation of C1 is more stable.

$$\rightarrow -0 - \frac{1}{3} = \frac{1}{3}$$

