练习三 (Ade Reactions) 参考答案

1.
$$\begin{array}{c} Et_3N \\ O \\ O \\ PhS-CI \end{array}$$

4.
$$CH_2$$
 CH_3 σ -shift CH_3 σ -shift σ -shift

non-classical carbocation

HO
$$\frac{-H^{+}}{6}$$
 $H_{2}\overset{+}{0}$ $H_{2}\overset{-}{0}$ H

6.
$$H_{2}O_{+}$$

$$H_{2}O_{+}$$

$$H_{2}O_{+}$$