Exercise 82 - Good/Bad Dienes/Dienophiles

Question

Give the structure of the product of each of the following Diels-Alder reactions. If no reaction occurs, state that such is the case and indicate what the problem might be.

$$\begin{array}{c|c} & & & \\ & & &$$

$$H_3C$$
 CH_3
 H
 CH_3
 H

$$\begin{array}{c|c} H & CH_3 & CO_2CH_3 \\ \hline \\ CH_3 & H & H \end{array}$$

$$H_3CO$$
 CN