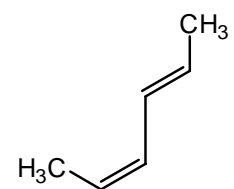
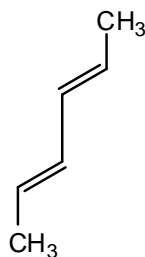
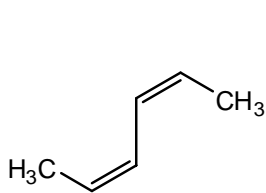


Chapter 15 Worksheet 01

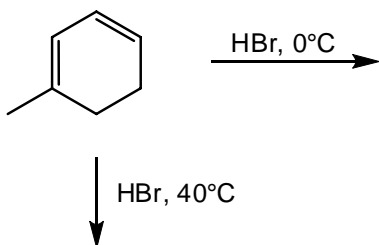
Facts

1. Place the following molecules in order of increasing reactivity in a Diels-Alder reaction. (1=least reactive, 3=most)

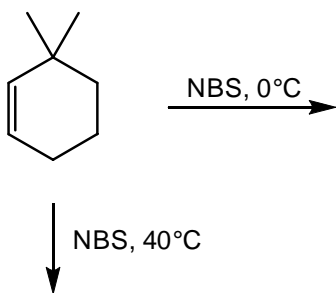


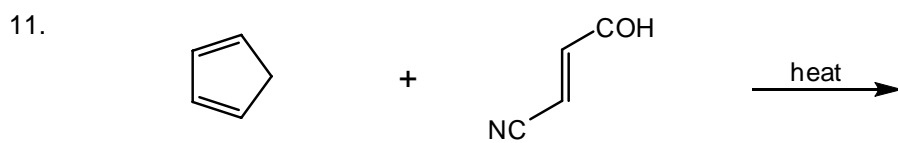
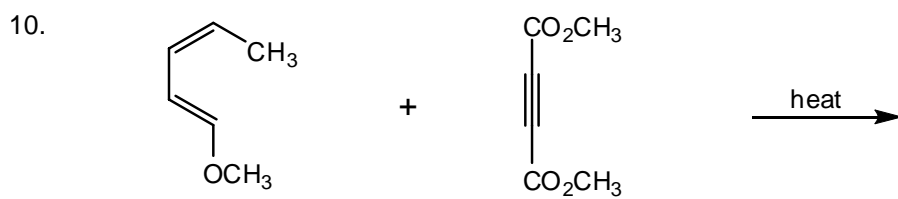
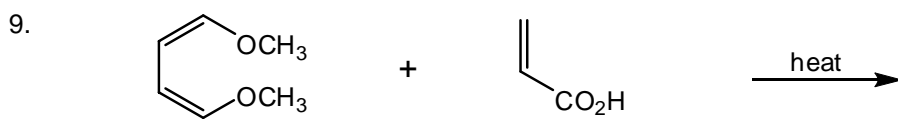
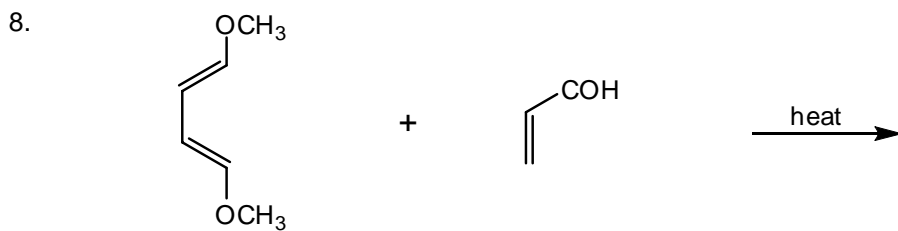
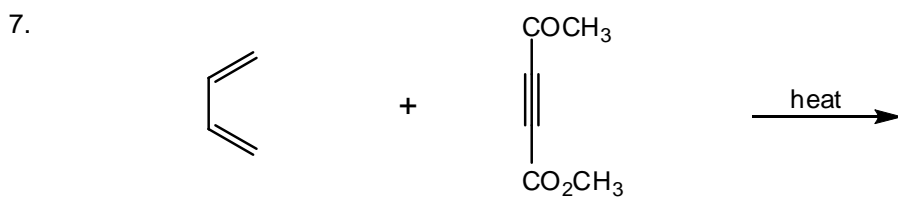
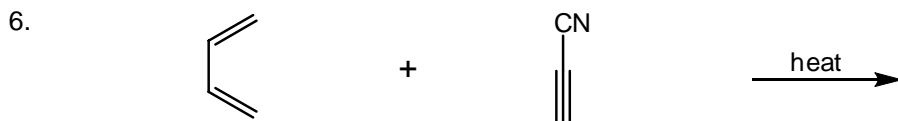
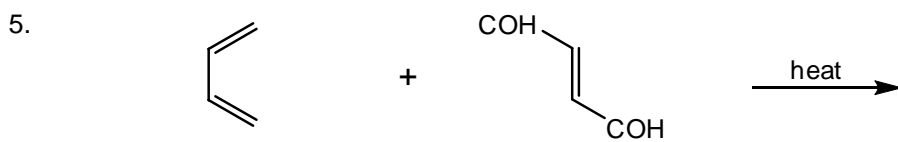
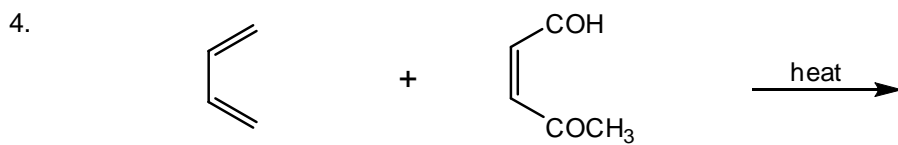
Mechanism

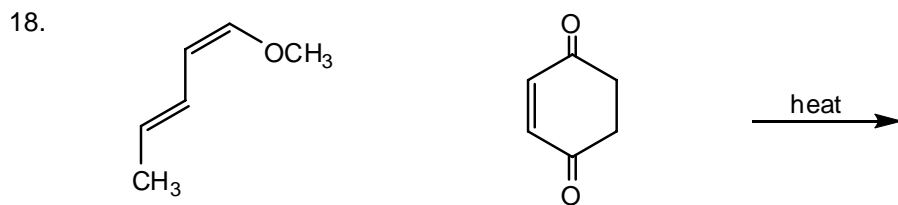
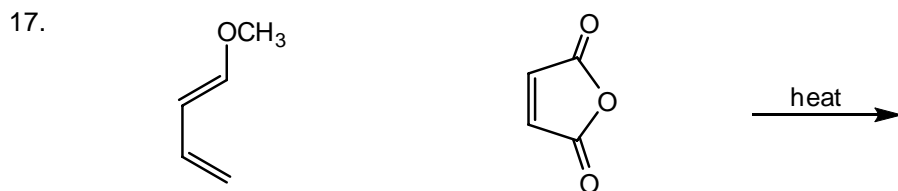
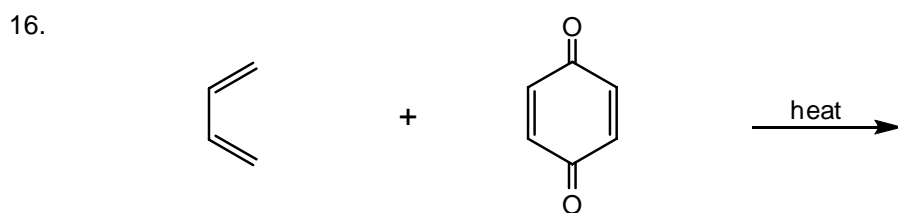
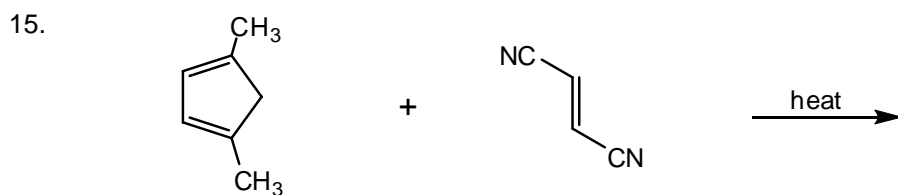
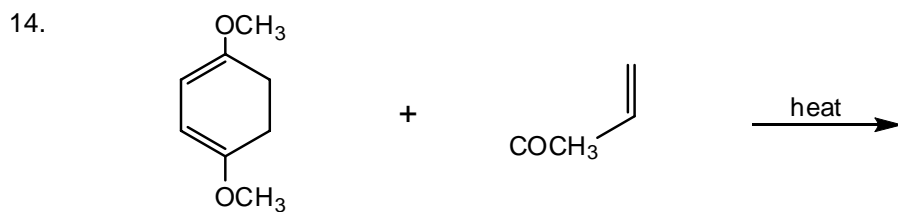
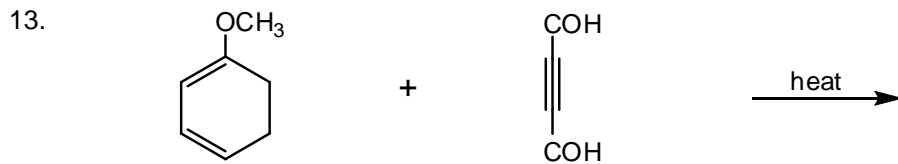
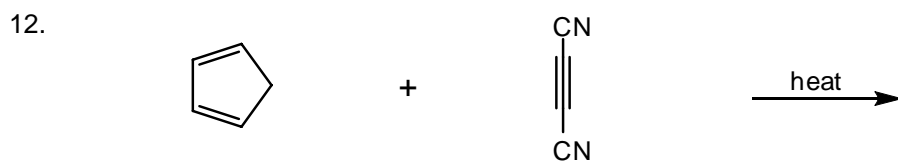
2. Please provide a detailed mechanism for the following reactions. Use curved arrows to indicate "electron flow".



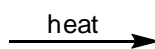
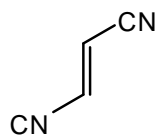
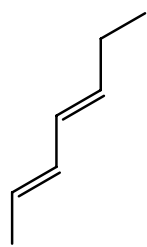
3. Please provide a detailed mechanism for the following reactions. Use curved arrows to indicate "electron flow".



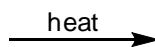
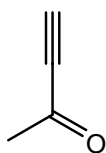
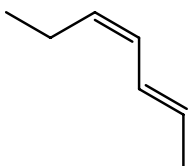




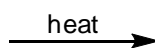
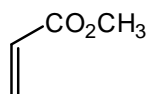
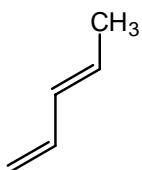
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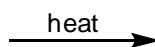
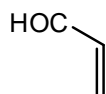
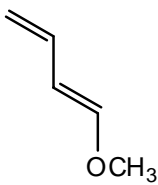
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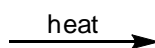
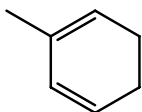
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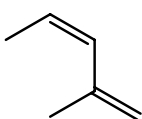
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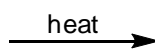
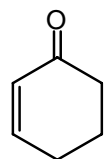
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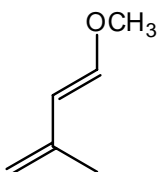
24.



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25.



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