1. Write a mechanism to account for the following reactions. Show each step clearly using curved arrows to show the movement of electrons.

Br₂

H₂

Pd

diastereomers

2. Write a mechanism to account for the following reactions. Show each step clearly using curved arrows to show the movement of electrons.

Br₂

H₂

Pd

diastereomers

3. Write a mechanism to account for the following reactions. Show each step clearly using curved arrows to show the movement of electrons.

Br₂

H₂

Pd

diastereomers

4. Write a mechanism to account for the following reactions. Show each step clearly using curved arrows to show the movement of electrons.

Br₂

H₂

Pd

diastereomers
5. Diastereomers

6. Write a mechanism to account for the following reactions. Show each step clearly using curved arrows to show the movement of electrons.

Enantiomers
7. \[ \text{Br}_2 \text{H}_2\text{O} \rightarrow \text{enantiomers} \]

8. \[ \text{Br}_2 \text{H}_2\text{O} \rightarrow \text{enantiomers} \]

9. \[ \text{H}_2 \text{Pd} \rightarrow \text{Diastereomers} \]