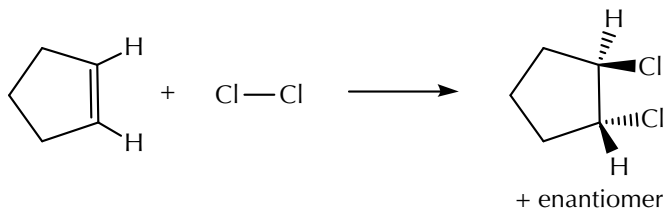


11.03 In the following reactions, (i) place a circle around any atoms that are oxidized, (ii) place a triangle around any atoms that are reduced, and (iii) identify whether the organic molecule has acted as an oxidizing agent, a reducing agent, or neither.

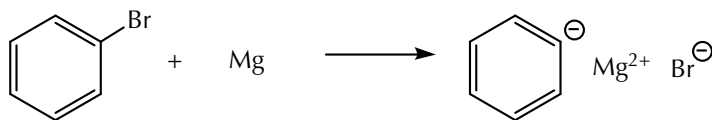
(a)



Overall, the organic molecule has acted as:

- an oxidizing agent  
 a reducing agent  
 neither

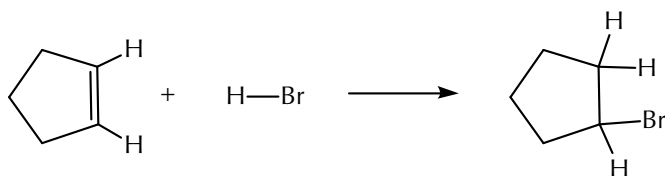
(b)



Overall, the organic molecule has acted as:

- an oxidizing agent  
 a reducing agent  
 neither

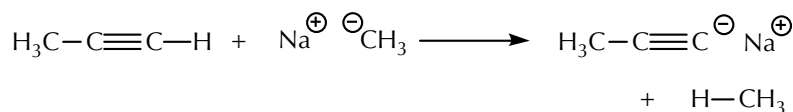
(c)



Overall, the organic molecule has acted as:

- an oxidizing agent  
 a reducing agent  
 neither

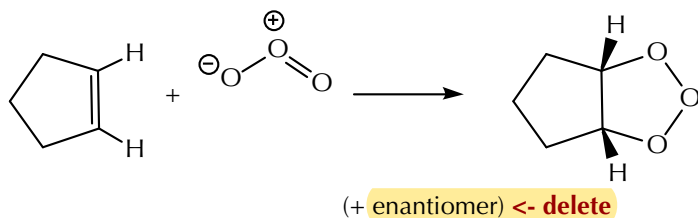
(d)



Overall, the organic molecule has acted as:

- an oxidizing agent  
 a reducing agent  
 neither

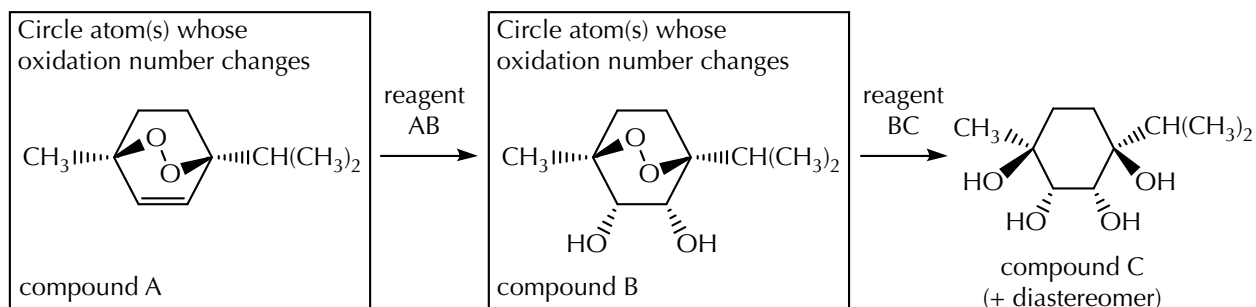
(e)



Overall, the organic molecule has acted as:

- an oxidizing agent  
 a reducing agent  
 neither

11.04 Two reactions are shown: Compound A to compound B, and then compound B to compound C. On compound A, circle any atom(s) whose oxidation number changes in the formation of compound B. And on compound B, circle any atom(s) whose oxidation number changes in the formation of compound C.



The atom(s) you circled in compound A were  (circle one) oxidized  reduced in the reaction forming B.

The atom(s) you circled in compound B were  (circle one) oxidized  reduced in the reaction forming C.

Which of the reagents is an oxidizing agent?  (circle one) AB  BC  neither

Which of the reagents is a reducing agent?  (circle one) AB  BC  neither