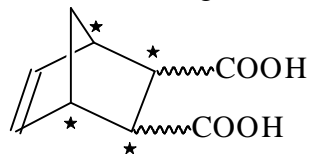


**ANSWERS AND POINTS TO THEORETICAL PROBLEMS**  
(points are given in square brackets)

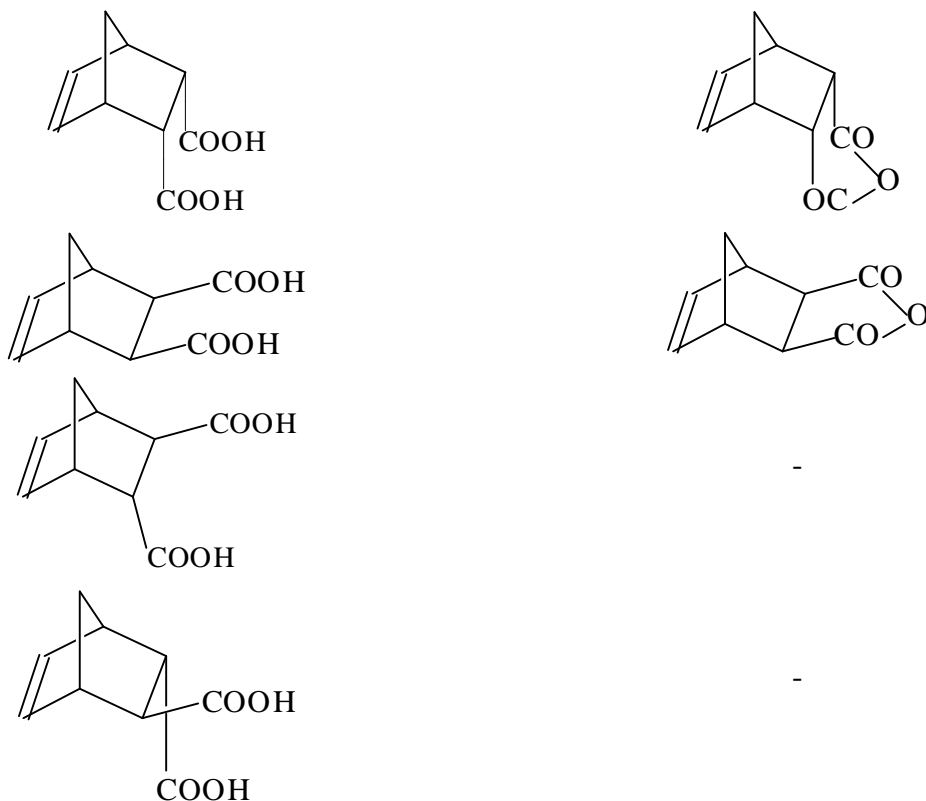
**PROBLEM 7.**

1. [1] point for each correct atom, [-1] for each wrong choice. **Maximum value [4].**



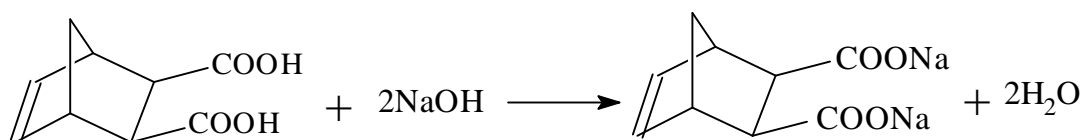
2. **Total [6].**

Fill in the left column with the structures of stereoisomers of **X**, and the right column with the corresponding structures of dehydration products (when such structure does not exist write a minus sign there). [1] point for each correct structure, [-1] point for incorrect structure.

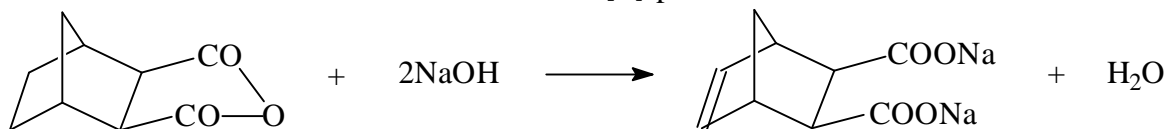


3. **Total [2].**

The reaction of stereoisomer of **X** with NaOH - [1] point



The reaction of stereoisomer of **Y** with alkali - [1] point

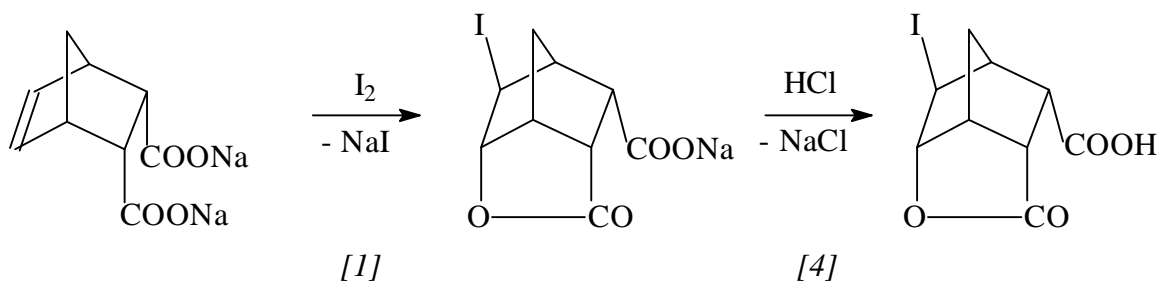


4. Total [7].

The molar mass of <b>A</b> , g/mol	308 [2]	Calculations
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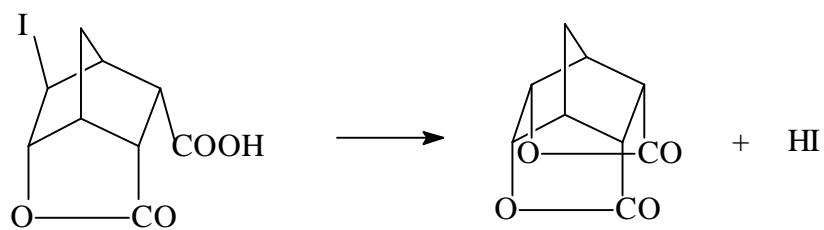
[1] point will be given if right calculations are written, but wrong answer is obtained.

The reactions leading from **X**<sub>1</sub> to **A** - [5] points.

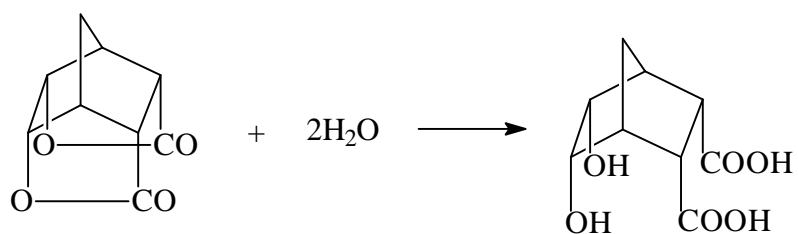


5. Total [4].

The transformation of **A** to **C** - [2] points.

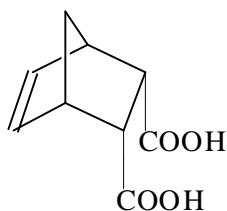


The reaction of **C** with water - [2] points.



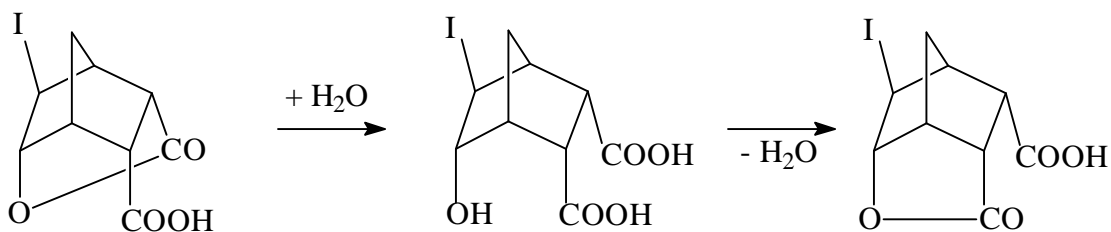
6. Total [4].

The structure of compound **X** - [4] points.



7. Total [4].

The transformation of **B** to **A** - [4] points.



8. Total [1].

Place a checkmark into the square near the correct statement

Yes, **A** and **B** are diastereomers

No, **A** and **B** are not diastereomers - [1] point