2018 ORG MECH: Nucleophiles and Bases

Quiz #3

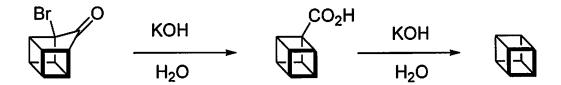
20 pts

NAME:____

1) (1+6=7pts) For the transformation below:

- a) Apart from it being in a ring, what is another significant structural difference between ketone A and ketone B?
- b) Propose a mechanism for this reaction.

2) (1+7=8pts) For the (famous) reaction scheme below:



- a) What named rearrangement is used in the first step?
- b) Write the mechanism for both steps.

3) (5pts) Provide a mechanism for EITHER (A) or (B).

(A)
$$NaOH$$
 H_2O

or

(B)
$$O$$
 NaOH CO_2H OH

Bonus	questions	for up	to :	2	points
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What is the (trivial) name of the 'cubic' product in Question (2)?

Which question involves a Michael Addition?

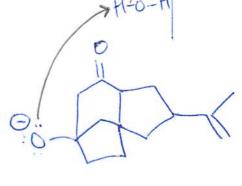
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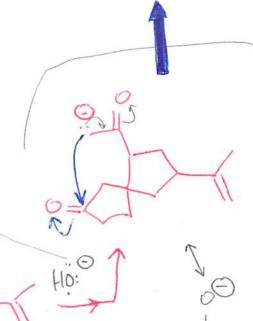
NAME:

ANSWERS

1) (1+6=7pts) For the transformation below:

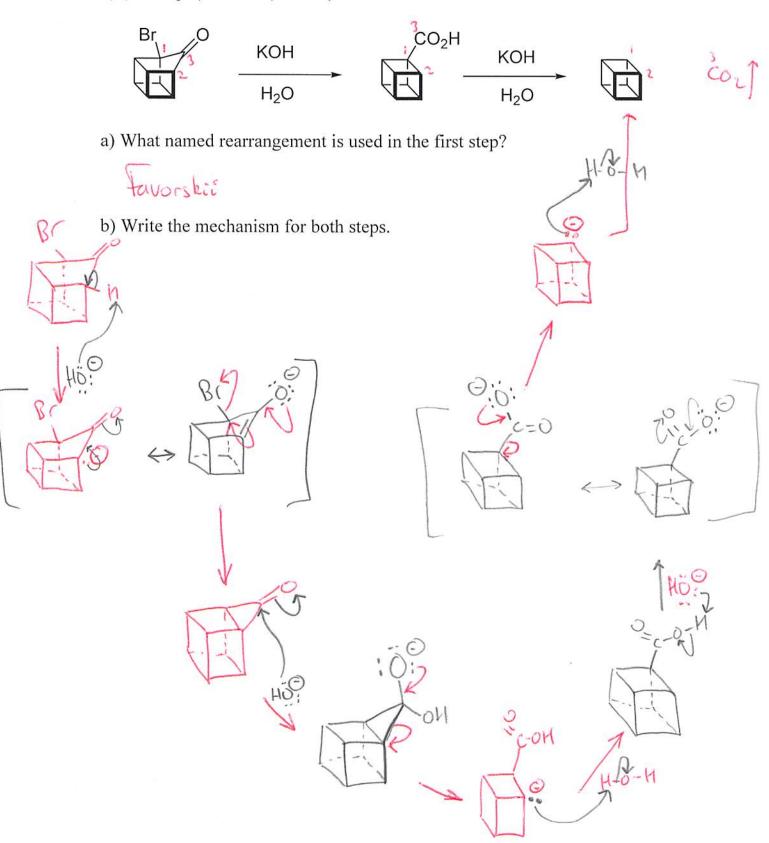
a) Apart from it being in a ring, what is another significant structural difference between ketone A and ketone B?



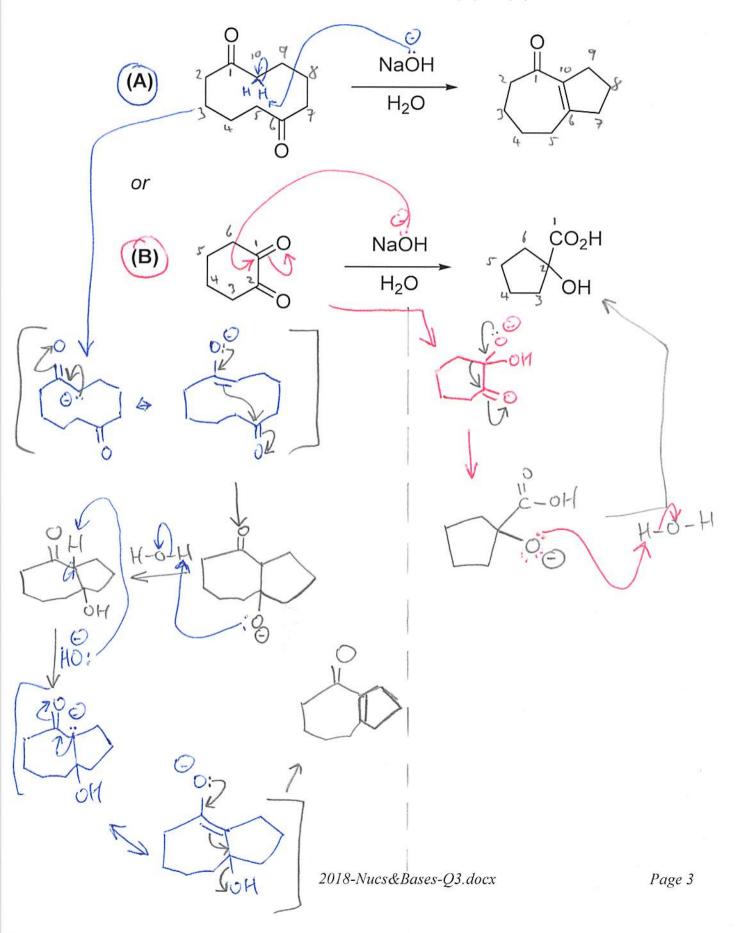


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2) (1+7=8pts) For the (famous) reaction scheme below:



3) (5pts) Provide a mechanism for EITHER (A) or (B).



Bonus questions for up to 2 points

What is the (trivial) name of the 'cubic' product in Question (2)?

CUBANÉ

Which question involves a Michael Addition?

Question !