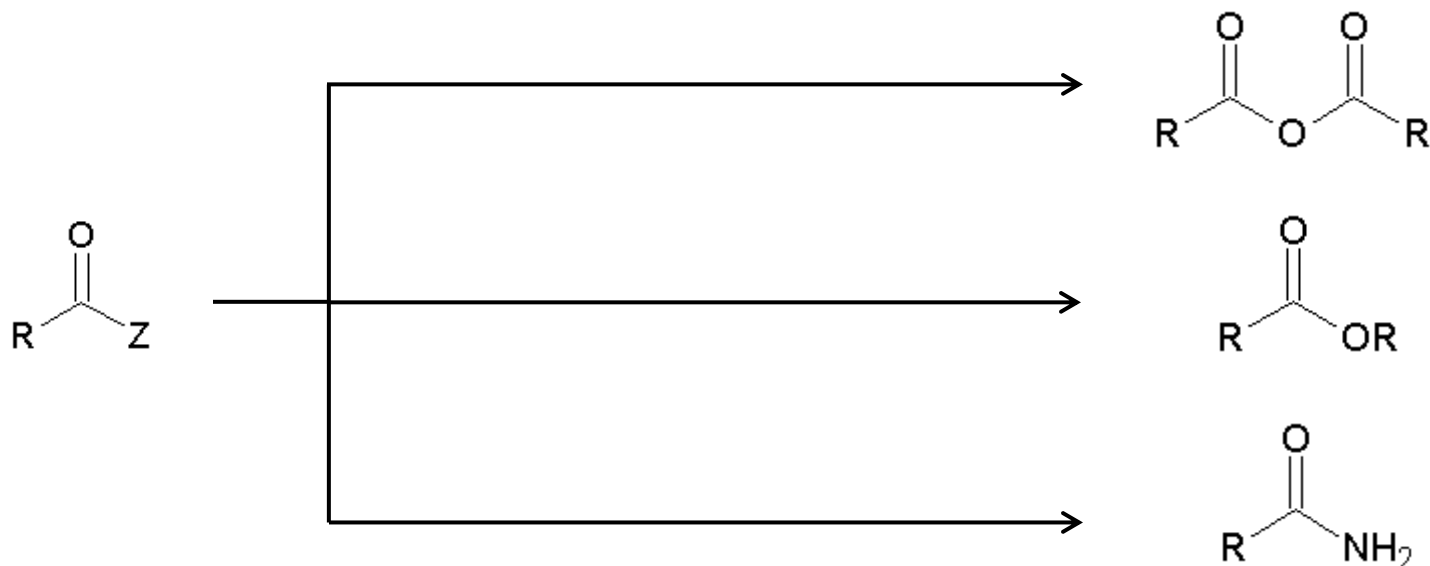


CONCEPT: NUCLEOPHILIC ACYL SUBSTITUTION – THE THREE RULES

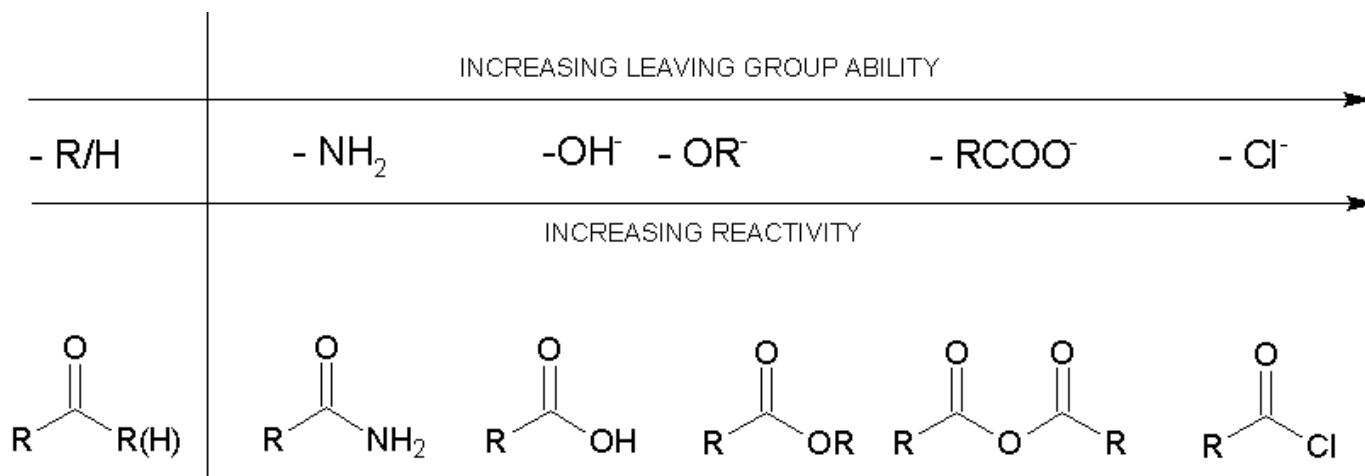
Most of the formulas governing the conversion of carboxylic acid derivatives can be simplified into the following 3 Rules:

RULE #1 The general reactions for these conversions are as follows:

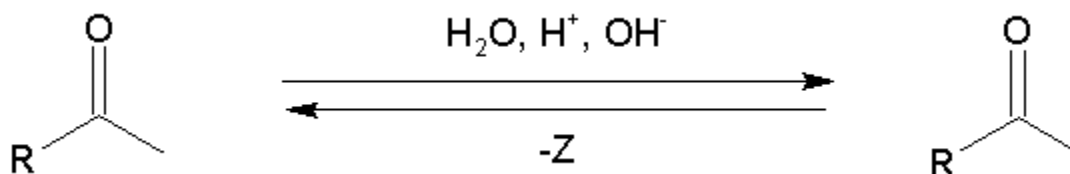


RULE #2 More reactive acyl compounds can be easily _____ into less reactive ones.

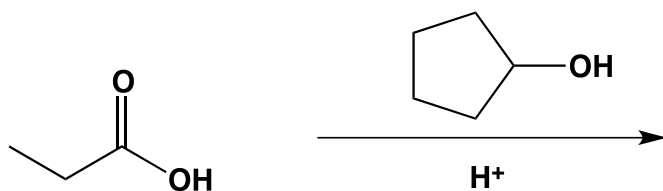
The reactivity of carbonyls toward NAS depends upon the strength of the _____



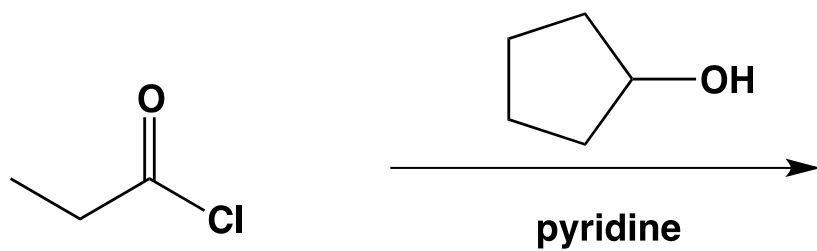
RULE #3 The Carboxylic Acid Conversions



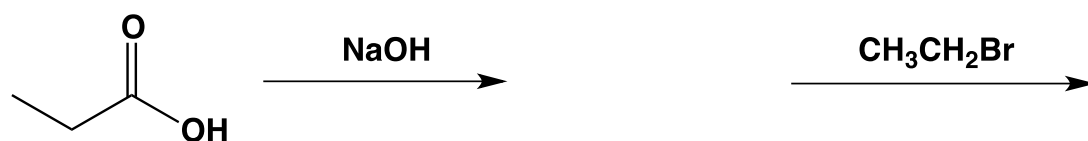
PRACTICE: Determine the major product for the following reaction.



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