CONCEPT: ESTER REACTIONS: SAPONIFICATION

- Under this reaction the _____ ion dissolved in water reacts with an ester.
 - □ This reaction cuts (______) the ester bond to create a *carboxylate anion* and an alcohol.
 - □ Carboxylate Anion: the conjugate ______ form of a carboxylic acid.
 - □ Considered to be the opposite process of _____

EXAMPLE: Determine the products when propyl butanoate is treated with an aqueous sodium hydroxide solution.

PRACTICE: Name alcohol formed when the following ester undergoes a saponification reaction.

- a) 4-methyl-4-butanol

- b) 2-methyl-4-butanol c) 2-methyl-1-butanol d) 2-methylhexanoate