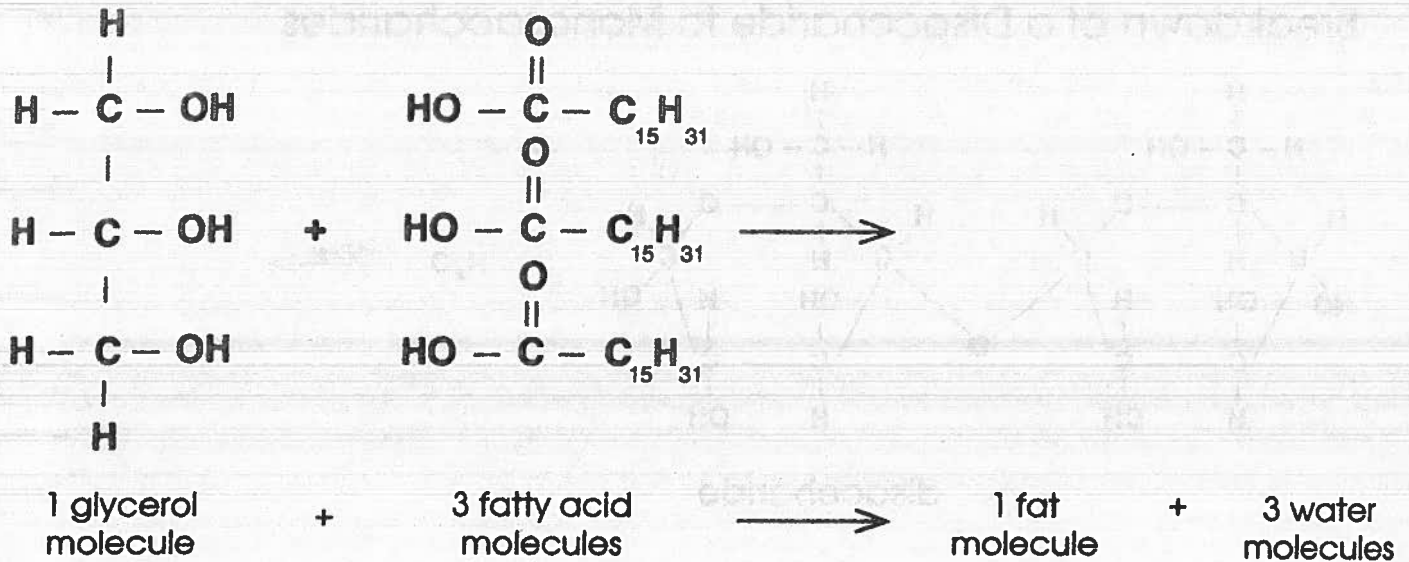


# DEHYDRATION SYNTHESIS

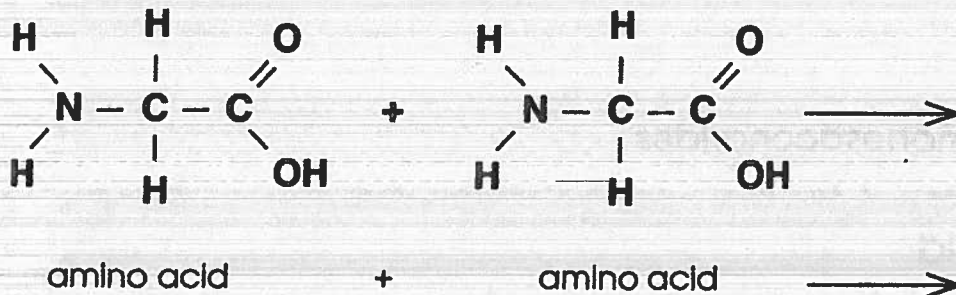
Name \_\_\_\_\_

In the following two examples of dehydration synthesis, show how the removal of the water molecule(s) takes place by drawing a ring around the components of water. Then, draw the structural formula of each product.

## Synthesis of a Fat



## Formation of a Peptide Bond



dipeptide

+ water

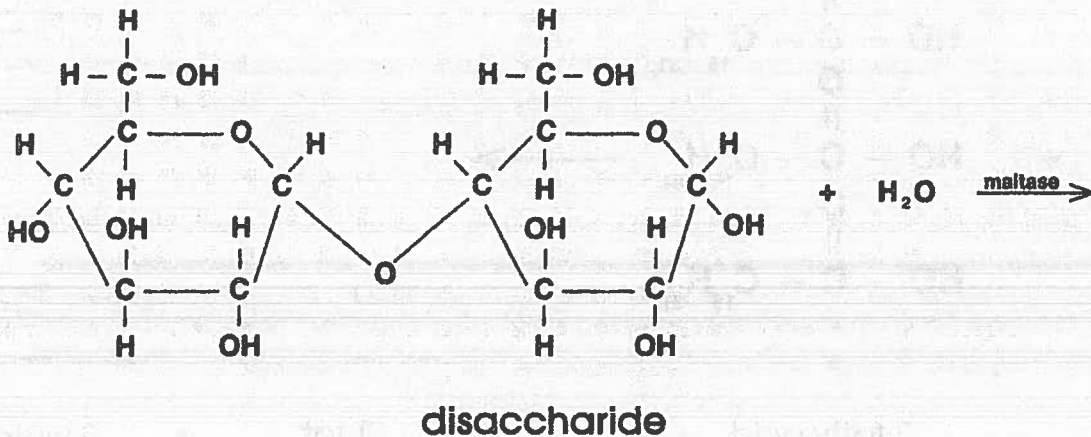
# HYDROLYSIS

Name \_\_\_\_\_

Hydrolysis is the opposite of a dehydration synthesis. A large molecule is broken down into two or more smaller molecules by the addition of water.

Draw the structural formulas of the expected products in the two following hydrolysis reactions.

## Breakdown of a Disaccharide to Monosaccharides



2 monosaccharides

## Breakdown of a Lipid

