

Name: \_\_\_\_\_

## Saponification

### OBSERVATIONS SHEET

II. Water hardness

III. Emulsification

B.

C.

IV. Strong base-weak acid properties of soap

Observations

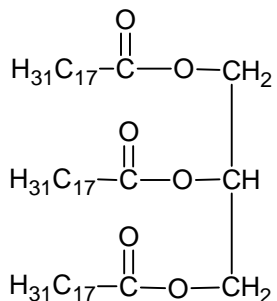
Explanations

Name: \_\_\_\_\_

## Saponification

### REVIEW QUESTIONS

1. Write the chemical equation for the saponification of cottonseed oil, considering it to be glycerol trioleate.



2. Write the balanced equation for soap precipitating with hard water ion such as  $\text{Ca}^{+2}$  or  $\text{Mg}^{+2}$ .
3. What is saponification?
4. How do soaps and detergents emulsify (remove) oily soils from clothes or skin?
5. Is soap acidic or basic? What tests can be done to determine this?
6. What happens when synthetic detergent is added to a sample of "hard water"?
7. What is soap?