# Research topics for Math II FRB-102

Notes:

I- The research language is English

II- In point c of each research, the proposed problems must be not from solved examples in lectures

III- Similar researches are rejected and not success

## Integration research

### 1- A survey on applications of definite integrals

This research contains on the following points:

a- Definition and properties of definite integral

b- Explain briefly at least five applications of definite integrals

c- Solving at least one problem in each application

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### 4- A survey on analytic methods of indefinite integrals

This research contains on the following points:

a- Write the analytic methods of indefinite integrals and explain trigonometric and hyperbolic substitutions

b- Explain at least one application on indefinite integrals

c- Solving at least one problem in each case of trigonometric and hyperbolic substitutions cases