

Problem Set 12

- 1) Design a flow chart for computing definite integrals

2) Compute the integral:

$$\int x \sin x \cos^2 x \, dx$$

3) Compute the integral:

$$\int \frac{\cos^2 x - \cos x + 2}{\cos^3 x - 1} dx$$

4) Compute the integral:

$$\int \sqrt{24 - 2x - x^2} dx$$