

## Topics for the First Midterm Exam

- Definite and indefinite integrals.
- Integration by substitution.
- Integration by parts.
- Integrating trigonometric functions.
- Integration by trigonometric substitution.
- Integration by partial fraction decomposition.
- Improper integrals.

Note: You will be expected to know the relevant trigonometric identities and basic values of trigonometric functions (e.g.  $\sin(\pi/6)$ ,  $\tan(\pi/4)$ , etc.).