

Final review

- Definition of Integral as area under a curve
- Limit definition of the integral
 - Including how to solve easy $\sum i$ - type examples
- Properties of the integral
 - Including comparison properties
- Fundamental theorem of calculus
 - Derivatives of integrals
 - Evaluating integrals using anti-derivatives
- Substitution rule
- Area between curves
- Logarithms
 - Definition of \ln as an integral
 - Properties
 - Differentiating
 - General logarithms
- Exponents
 - Definition as inverse of \ln
 - Properties
 - Differentiating
 - Integrating
 - General exponents
- Volume problems
 - Integral of cross-sectional area function
 - Solids of revolution