

Math 125 Final Objectives

Unit 1

- Find the derivative of a hyperbolic or inverse trigonometric function.
- Find the area of a region bounded by the graphs of two functions.
- Find the volume of a solid of revolution using an appropriate method.

Unit 2

- Evaluating an integral using Basic Rules.
- Evaluating an integral using Partial Fractions.
- Apply L'Hopital's Rule to evaluate a limit.
- Evaluate an improper integral.

Unit 3

- Determine whether a series converges or diverges using an appropriate test.
- Use the Integral Test to determine whether a series converges or diverges.
- Find the interval of convergence of a power series.
- Find the first few terms of a Taylor Series expansion for a given function and find the general term .

Unit 4

- Find the equation of the tangent line to curve that is defined parametrically.
- Convert a polar equation to rectangular form.
- Find the slope of the tangent line for a curve in polar coordinates.
- Find the area of a polar region.