

MATH 230
LAST HOMEWORK ASSIGNMENT!!

For this assignment, I want you to create a final exam study guide. For each section we have covered, write a short explanation of what we did and the formulas we covered, and include a practice problem with a solution. You may refer back to homework problems, quiz problems, or lecture problems for your examples. Here is a list of sections and topics you should cover.

Sections:

- 5.1 Area between curves
- 5.2 Volumes (disk and washer)
- 5.3 Volumes (cylindrical shells)
- 8.1 Arc length
- 8.2 Surface area
- 6.1 Inverse functions
- 6.2* Natural Log function
- 6.3* Exponential function
- 6.4* General Log function
- 6.6 Inverse Trig functions
- 6.8 LH
- 7.1 Integration by parts
- 7.2 Trig integrals
- 7.3 Trig sub
- 7.4 Partial fractions
- 7.7 Approximate integration
- 7.8 Improper integrals
- 11.1 Sequences
- 11.2 Series (geometric)
- 11.3 Integral test
- 11.4 Comparison tests
- 11.5 Alternating series
- 11.6 AC, CC, ratio/root test
- 11.8 Power series
- 11.9 Power series representations
- 11.10 Taylor Series
- 11.11 Taylor polynomials