

Math 142 - Midterm 3 Suggested Study Problems

Here are problems that are similar to the ones you might see on the exam.

L'Hospital's Rule Cht. 8 review # 75, 79

Improper Integrals Cht. 8 review # 83, 87, 88

Geometric Series Cht. 9 review # 26, 27, 29, 31

Divergence Test Cht. 9 review # 59

p-Test Cht. 9 review # 40

(Limit) Comparison and Integral Tests Cht. 9 review # 39, 43, 45

Alternating Series Cht. 9 review # 51, 53

Ratio Test Cht. 9 review # 47

Power Series Cht 9. review # 73, 75, 81

Taylor Polynomials Cht. 9 review # 65, 91

- Make sure that you can recognize the three types of special series (geometric, alternating, and p-series) when you see them. Be sure that you know when these special series converge.
- You should also know the ratio, (limit) comparison, integral, and divergence tests.
- I will be pretty generous with formulas on the formula sheet, but you need to know what every variable in every formula means.
- You should know what the sum of a geometric series is. That formula is too important to go on the formula sheet.