

Math 142 - Suggested Study Problems for Midterm 1

Here are examples of problems similar to ones that might be on the exam.

- **Logarithm Rules** Cht. 5 review # 3, 5, 7
Make sure that you know the laws of logarithms.
- **Derivatives** Cht. 5 review # 9, 43, 47, 65, 81
Pay attention to the chain rule, product rule and quotient rule in these problems.
- **Integrals** Cht. 5 review # 17, 21, 49, 87
- **Inverse Functions** Cht. 5 review # 29, 77
When is a function invertible?
- **Differential Equations** Cht. 6 review # 1, 33, 35
How is a solution to a differential equation different from a solution to a regular equation?
- **Exponential Growth/Decay** Cht. 6 review # 23, 31
- **Area Between Curves** Cht. 7 review # 7, 19