

Math 142 - Midterm 1 Suggested Study Problems

Here are problems that are similar to the ones you might see 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, 19, 49, 87

When should you use u-substitution?

Inverse Functions Cht. 5 review # 29, 77

When is a function invertible?

Differential Equations Cht. 6 review # 1, 19, 21, 23

How is a solution to a differential equation different from a solution to a regular equation?

Exponential Growth & Decay Cht. 6 review # 25, 29

Area Between Curves Cht. 7 review # 3, 7

If both curves are rates of change, then what does the area between represent?

Volumes of Revolution Cht. 7 review # 26*

**The solution to #26 is $\pi^2/2$.*