

Monday, October 29

Reading: Anton, Bivens & Davis Section 4.3

Class 23: Derivatives of Exponential Functions

We shall conclude our survey through learning how to differentiate functions as complicated as $f(x)g(x)$.

Homework 23:

Anton, Bivens & Davis §4.3: 11, 12, 14, 17, 22, 25, 28, 32

Wednesday, October 31

Reading: Anton, Bivens & Davis Section 4.3

Class 24: Derivative Of Inverse Functions

We shall look more carefully how the derivative of the inverse of a function and the derivative of a function are related.

Homework 24: Anton, Bivens & Davis §4.3: 1, 2, 3, 4, 7, 39, 55

Thursday, November 1

Exam #2: The second mid-term exam in the Course will be held from 7pm in Fowler 301 and 302.

Homework 22, 23 & 24 Due in the Math 110 Course Box by 5:00 pm Thursday November 1

Friday, November 2

Reading: Anton, Bivens & Davis Section 4.4

Class 25: L'Hopital's Rule and Indeterminate Forms

We will look at an application of derivatives which allows us to evaluate a whole host of exotic indeterminate forms such as 1^∞ , 0^0 , $\infty \cdot 0$, ∞^0 .

Homework 25: Anton, Bivens & Davis §4.4: 1, 2, 5, 6, 14, 15, 19, 21, 26, 28, 38
EXTRA CREDIT 49, 50

Homework 26: Anton, Bivens & Davis Chapter 4 Review: 1, 6, 7, 9, 12, 18, 22, 23, 24, 35, 43, 44