MA 224
EXAM 2 – Topics List

I. Finding definite and indefinite integrals
    • Using the power rule
    • Using substitution
    • Using integration by parts

II. Applications of integration
    • Finding a function given the slope of the tangent line at any point and a point on the
       graph of the function
    • Finding a function given its rate of change and an initial value
    • Evaluating a function over an interval, given the function's rate of change
    • Finding the average value of a function
    • Finding the area bounded by curves
    • Finding the consumers' and producers' surplus

III. Applications not using integration
    • Estimating the area under a curve using rectangles