

BC CALC MIDTERM REVIEW

Limits (4)

- 1.2 Defining limits & limit notation Pg 161/ 1A, 9, 23
1.3 Estimating limit values Given a graph
1.5 Using algebraic properties to evaluate limits
1.6 Using algebraic manipulation
4.7 Using L'Hopitals Rule for Determining Limits in Indeterminate Forms Pg 348 / 13,33,35

Conceptual understanding & definitions (2)

- 2.1 Definition of derivative Pg 171
6.7 Definite integral meaning Pg 415

Mean Value Theorem and continuity (2)

- 5.1 Using the MVT Pg 314/ 9ab
1.11 Defining continuity at a point Pg 132
1.13 Removing discontinuities Pg 144/ 53

Integrals (11)

- 6.8 Finding anti-derivatives & integrals – Basic rules & notations Pg 467/ 12, 13, 19, 29, 33
6.9 Integrating using u-substitution Pg 472/ 27,35
6.10 Integrating using long division & completing the square ****
6.11 Integrating by parts ****
6.12 Integrating by partial fractions Pg 577/ 15
6.14 Selecting techniques for anti-differentiation (Inverse trig) ****
6.4 FTC and Accumulation Functions ****
6.7 FTC and Tables and Graphs Pg 445/ 87

Derivatives (9)

- 3.2 Implicit differentiation Pg 249/ 21
2.5 Applying the power rule Pg 234/ 21,33,
2.7 Derivatives of $\cos x$, $\sin x$, e^x and $\ln x$ Pg 287/ 29, 31, 33
2.8 Product rule Pg 213/ 21, 33
2.9 Quotient Rule Pg 204/ 51
2.10 Derivatives of $\tan x$, $\cot x$, $\sec x$, $\csc x$ Pg 249 / 41
3.1 Chain Rule
3.4 Inverse Trig Functions
4.6 Approximating values of a function using local linearization (tangent line)

4.5 Related Rates (1)

- 4.1 Interpreting the Meaning of the Derivative in Context Pg 280/ 27

Riemann Sums, Trapezoid Rule – write out terms (2)

- 6.2 Approximating area with Riemann sums Pg 413/ 28
Trapezoid Rule Pg 412/ 21