Cheatography

Rule

Calculus 2 - Final Exam Cheat Sheet by lmfao1234 via cheatography.com/146335/cs/31874/

II. Basic Techniques of Integr-	IX. Simpson's Rule	XII. Limit Comparison Test for	XXV. Parametric Equations
ation	(i) Error Estimate for Simpson's	Integrals	(i) Traveling Particle
(i) Completing the Square	Rule		(ii) Cartesian Equations vs.
(ii) Polynomial Division	X. Improper Integrals	XI. Direct Comparison Test for	Parametric Equations and
(iii) Separating Numerators	(i) Infinite Limits of Integration	Integrals	(iii) Domains for the Parameter
III. Basic Integration Rules	(ii) Integrands with Vertical		(iii) Domains for the rarameter
	Asymptotes	XVI Power Series	Lines
		(i) Interval of Convergence	(v) Parametric Equations for
IV. Integration by Parts	XIV. Series	(i) Interval of Convergence	Circles
(i) Choosing u dan dv (LIATE)	(i) Convergence and Divergence	(ii) Radius of Convergence	(vi) the Natural Parameterization
(ii) Repeated Iterations	(ii) Sequence of Terms {an}	Tests to Check Endpoints	
(iii) Cycling	(iii) Sequence of Partial Sums		XXVI. Arc Length of Curves
V Tria Integrals	{sn}	XVII. Power Series Operations	
	(iv) Harmonic Series	(i) Composition of a Power	XXVII. Polar Coordinates
(i) Pythagorean Identities	(v) Re-Indexing a Series	Series with a Continuous	(i) Plotting Points in Polar
(II) Half Angle and Double Angle	(vi) Absolute Convergence	Function	Coordinates
(iii) Basic Trig Definitions	(vii) Conditional Convergence	(ii) Ferm by Term Differentiation	(ii) Converting Between Rectan-
(iv) $\sin(u) \cos(u)$ Integral	XV. Convergence Tests for	(iii) Term by Term Integration	gular and Polar Coordinates
Techniques	Series	XVIII. Tavlor and Maclaurin	
(v) sec(u) tan(u) Integral	(i) Partial Sums	Series	
Techniques	(ii) Nth Term Test/ Divergence		
	Test		
I. Limits Review	(iii) Geometric Series Test	XIX. Taylor Polynomials of	
(i) L'Hopitals Rule	(iv) Geometric Series Sum		
	Formula	(i) Approximating Function Values Using Taylor Polyno- mials	
(i) Standard Substitutions	(v) P-Series Test		
	(vi) Integral Test	(ii) Degree vs. Order of a Taylor	
	(vii) Remainder Theorem for the	Polynomial	
Terms of x	Integral Test		
	(viii) Direct Comparison Test	XX. Taylor's Theorem	
VII. Partial Fractions	(ix) Limit Comparison Test		
(i) Simple Roots	(x) Alternating Series Test	XXI. Taylor's Formula	
(ii) Repeated Roots	(xi) Remainder Estimation		
(iii) Factors without Roots	Series Test		
(iv) Solving for Unknown	(xii) Ratio Test	XXII. Remainder of Order n	
Constants (a) Setting Coeffi-	(xiii) Root Test		
cients Equal (b) Plugging in x-		XXIII. Remainder Estimation	
	XIII. Sequences	Theorem	
(v) Integration of Partial Fraction			
VIII. Trapezoidal Rule			
(i) Error Estimate for Trapezoidal			

(i) Convergence	of a Sequence
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(ii) Monotone Sequences

(iii) Bounded Sequences

(iv) Monotone Sequence Theorem/ Monotone Convergence Theorem (i) Finding an Upper Bound Mfor the Appropriate Derivative of f(x)

(ii) Finding the MaximumPossible Error of a TaylorPolynomial Approximation

(iii) Finding the x-Values Where an Approximation will be within a Particular Error Tolerance

XXIV. List of Important Taylor Series to Memorize

(i) Developing new Taylor Series using substitution(ii) Multiplying Taylor Series by

constants and powers of x

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