

Mathematics

Calculus

9/18/09

Limits	Derivatives and Applications	Integration and Applications
1. Evaluate limits graphically, numerically, and analytically.	2. Calculate slopes of curves using derivatives. 3. Use derivatives to find velocity, speed, and other rates of change. 4. Solve derivatives using the Chain Rule, implicit differentiation, power rule, quotient rule, product rule and fractional powers. 5. Use derivatives to analyze functions and solve applications. 6. Solve related rates of change problems.	7. Calculate antiderivatives and solve initial value problems. 8. Apply the Fundamental Theorem of Calculus. 9. Solve definite and indefinite integrals using substitution, trapezoidal and Simpson's methods when applicable. 10. use integrals to find areas and/or volumes and solve applications.