



18.01 | Fall 2006 | Undergraduate

Single Variable Calculus

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Readings

Course Reader

These notes were written by Prof. Arthur Mattuck and are designed to supplement the textbook. The exercises and solutions were written by Prof. David Jerison, except for exercise section 7 by Prof. Mattuck.

Notes

SECTIONS	TOPICS
G	Graphing functions (PDF)
C	Continuity and discontinuity (PDF)
X	Exponentials and logarithms (PDF)
A	Approximation (PDF)
MVT	Mean-value theorem (PDF)
PI	Properties of definite integrals (PDF)
FT	The second fundamental theorem of calculus (PDF)
AV	Average value (PDF)
F	Heaviside’s cover-up method (PDF)
INT	Improper integrals (PDF)

Exercises, Problems, and Solutions

SECTIONS	TOPICS
E	Exercises sections 1-7 (starred exercises are not solved in section S.) (PDF - 2.3 MB)
S	Solutions to exercises (PDF - 4.1 MB)
RP	Review problems and solutions RP1-RP5 (PDF)



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