DATE	BOOK	TOPIC
T 1.15	p. 1-7	Course introduction
$\mathbf{R} \ 1.17$	p. 8-10	Set notation; relations and functions
T 1.22		Cardinality; finite vs. infinite; countable vs. uncountable
R 1.24		More on cardinality
T 1.29	p. 15-23	Algebraic and order properties of the real numbers
$R \ 1.31$		Distance in \mathbb{R} ; convergent and divergent sequences
T 2.5		Suprema and infima
R 2.7	p. 23-26	Cauchy sequences; completeness properties of \mathbb{R}
T 2.12		Subsequences; limits inferior and superior
R 2.14		Intervals in \mathbb{R} ; Nested Interval Theorem
T 2.19	p. 27-28	Decimal representations; Cantor diagonal argument
R 2.21	p. 34-44	Topology of metric spaces
T 2.26	p. 44-48, 51-52	Convergent sequences in metric spaces; completeness
R 2.28	p. 52-61	Compactness and connectedness
T 3.5	p. 78-79, 82-83	Introduction to continuous functions
R 3.7	p. 68-75	Continuous functions on metric spaces; limits
T 3.12		No class - Spring Break
R 3.14		No class - Spring Break
T 3.19	p. 80-81	Uniform continuity
R 3.21	p. 83-90	TAKE-HOME EXAM 1 DUE
		Topologizing the space of continuous functions
		Topologizing the space of continuous functions $Last \ day \ for \ W \ grades$
T 3.26	p. 98-100	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functions
T 3.26 R 3.28	p. 98-100	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recess
T 3.26 R 3.28 T 4.2	р. 98-100 р. 100-105	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recessMean Value Theorem and associated results
T 3.26 R 3.28 T 4.2 R 4.4	р. 98-100 р. 100-105 р. 106-108	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recessMean Value Theorem and associated resultsTaylor polynomials and Taylor's Theorem; interchanging
T 3.26 R 3.28 T 4.2 R 4.4	p. 98-100 p. 100-105 p. 106-108	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recessMean Value Theorem and associated resultsTaylor polynomials and Taylor's Theorem; interchanginglimit and derivative
T 3.26 R 3.28 T 4.2 R 4.4 T 4.9	p. 98-100 p. 100-105 p. 106-108 p. 112-116	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recessMean Value Theorem and associated resultsTaylor polynomials and Taylor's Theorem; interchanginglimit and derivativeDefinition of the Riemann integral
T 3.26 R 3.28 T 4.2 R 4.4 T 4.9 R 4.11	p. 98-100 p. 100-105 p. 106-108 p. 112-116 p. 118-123	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recessMean Value Theorem and associated resultsTaylor polynomials and Taylor's Theorem; interchanginglimit and derivativeDefinition of the Riemann integralUpper and lower Riemann sums; integral
T 3.26 R 3.28 T 4.2 R 4.4 T 4.9 R 4.11	 p. 98-100 p. 100-105 p. 106-108 p. 112-116 p. 118-123 	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recessMean Value Theorem and associated resultsTaylor polynomials and Taylor's Theorem; interchanginglimit and derivativeDefinition of the Riemann integralUpper and lower Riemann sums; integralexistence criteria
T 3.26 R 3.28 T 4.2 R 4.4 T 4.9 R 4.11 T 4.16	p. 98-100 p. 100-105 p. 106-108 p. 112-116 p. 118-123 p. 116-118, 123-126	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recessMean Value Theorem and associated resultsTaylor polynomials and Taylor's Theorem; interchanging limit and derivativeDefinition of the Riemann integral Upper and lower Riemann sums; integral existence criteriaProperties of Riemann integrals
T 3.26 R 3.28 T 4.2 R 4.4 T 4.9 R 4.11 T 4.16 R 4.18	p. 98-100 p. 100-105 p. 106-108 p. 112-116 p. 118-123 p. 116-118, 123-126 p. 126-128, 138-140	Topologizing the space of continuous functions Last day for W grades Derivatives of real-valued functions No class - Mid-semester recess Mean Value Theorem and associated results Taylor polynomials and Taylor's Theorem; interchanging limit and derivative Definition of the Riemann integral Upper and lower Riemann sums; integral existence criteria Properties of Riemann integrals Fundamental Theorem of Calculus;
T 3.26 R 3.28 T 4.2 R 4.4 T 4.9 R 4.11 T 4.16 R 4.18	p. 98-100 p. 100-105 p. 106-108 p. 112-116 p. 118-123 p. 116-118, 123-126 p. 126-128, 138-140	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recessMean Value Theorem and associated resultsTaylor polynomials and Taylor's Theorem; interchanging limit and derivativeDefinition of the Riemann integral Upper and lower Riemann sums; integral existence criteriaProperties of Riemann integrals Fundamental Theorem of Calculus; interchanging limits and integrals
T 3.26 R 3.28 T 4.2 R 4.4 T 4.9 R 4.11 T 4.16 R 4.18 T 4.23	 p. 98-100 p. 100-105 p. 106-108 p. 112-116 p. 118-123 p. 116-118, 123-126 p. 126-128, 138-140 p. 141-143, 150 	Topologizing the space of continuous functionsLast day for W gradesDerivatives of real-valued functionsNo class - Mid-semester recessMean Value Theorem and associated resultsTaylor polynomials and Taylor's Theorem; interchanging limit and derivativeDefinition of the Riemann integralUpper and lower Riemann sums; integral existence criteriaProperties of Riemann integralsFundamental Theorem of Calculus; interchanging limits and integralsIntroduction to infinite series; convergence tests
$\begin{array}{c} T \ 3.26 \\ R \ 3.28 \\ \hline T \ 4.2 \\ R \ 4.4 \\ \hline T \ 4.9 \\ R \ 4.11 \\ \hline T \ 4.16 \\ R \ 4.18 \\ \hline T \ 4.23 \\ R \ 4.25 \end{array}$	 p. 98-100 p. 100-105 p. 106-108 p. 112-116 p. 118-123 p. 116-118, 123-126 p. 126-128, 138-140 p. 141-143, 150 p. 146-149, 150-153 	Topologizing the space of continuous functions Last day for W grades Derivatives of real-valued functions No class - Mid-semester recess Mean Value Theorem and associated results Taylor polynomials and Taylor's Theorem; interchanging limit and derivative Definition of the Riemann integral Upper and lower Riemann sums; integral existence criteria Properties of Riemann integrals Fundamental Theorem of Calculus; interchanging limits and integrals Introduction to infinite series; convergence tests Power series
$\begin{array}{c} T 3.26 \\ R 3.28 \\ T 4.2 \\ R 4.4 \\ \hline T 4.9 \\ R 4.11 \\ \hline T 4.16 \\ R 4.18 \\ \hline T 4.23 \\ R 4.25 \\ T 4.30 \end{array}$	 p. 98-100 p. 100-105 p. 106-108 p. 112-116 p. 118-123 p. 116-118, 123-126 p. 126-128, 138-140 p. 141-143, 150 p. 146-149, 150-153 p. 153-156 	Topologizing the space of continuous functions Last day for W grades Derivatives of real-valued functions No class - Mid-semester recess Mean Value Theorem and associated results Taylor polynomials and Taylor's Theorem; interchanging limit and derivative Definition of the Riemann integral Upper and lower Riemann sums; integral existence criteria Properties of Riemann integrals Fundamental Theorem of Calculus; interchanging limits and integrals Introduction to infinite series; convergence tests Power series Taylor series
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$\begin{array}{c} T \ 3.26 \\ R \ 3.28 \\ \hline T \ 4.2 \\ R \ 4.4 \\ \hline T \ 4.9 \\ R \ 4.11 \\ \hline T \ 4.16 \\ R \ 4.18 \\ \hline T \ 4.23 \\ R \ 4.25 \\ \hline T \ 4.30 \\ R \ 5.2 \\ \hline M \ 5.6 \end{array}$	 p. 98-100 p. 100-105 p. 106-108 p. 112-116 p. 118-123 p. 116-118, 123-126 p. 126-128, 138-140 p. 141-143, 150 p. 146-149, 150-153 p. 153-156 	 Topologizing the space of continuous functions Last day for W grades Derivatives of real-valued functions No class - Mid-semester recess Mean Value Theorem and associated results Taylor polynomials and Taylor's Theorem; interchanging limit and derivative Definition of the Riemann integral Upper and lower Riemann sums; integral existence criteria Properties of Riemann integrals Fundamental Theorem of Calculus; interchanging limits and integrals Introduction to infinite series; convergence tests Power series Taylor series A continuous but nowhere differentiable function FINAL EXAM: 10-11:40 AM