

Real Analysis, Unit 3 Plan, F2022 (Updated Nov 9, 2022)

Tues	Thurs
November 1, 2022	November 3, 2022
5.4-5.5 Continuity; Properties of Continuous Functions. Due today: • W 5.2 • D 5.4-5.5 • Read 5.6, RQ 5.6	5.6 Uniform Continuity Due today: • W 5.4-5.5 • D 5.6 • Read 5.7-5.9
November 8, 2022	November 10, 2022
5.7-5.9 Extremal Properties; Darboux Property; Discontinuities Due today: • W 5.6 • D 5.7-5.9 • Read 7.1-7.2, RQ 7.2-7.2	7.1-7.2 Intro to the Derivative Due today: • W 5.7-5.9 • D 7.1-7.2 • Read 7.3-7.4, RQ 7.3-7.4
November 15, 2022	November 17, 2022
7.3-7.4 Computations; Continuity Quiz 4 (The Derivative) Due today: • W 7.1-7.2 • D 7.3-7.4 • Read 7.5-7.6, RQ 7.5-7.6	7.5-7.6 Local Extrema; Mean Value Theorem Due today: • W 7.3-7.4 • D 7.5-7.6 • Read 7.7, 7.9 (<i>omit 7.8</i>), RQ 7.7, 7.9
November 22, 2022	November 24, 2022
7.7, 7.9 Monotonicity; Darboux Property Due today: • Individual Prep for Exam 3 • W 7.5-7.6 • Read 7.10, RQ 7.10	Thanksgiving
November 29, 2022	December 1, 2022
7.10 Convexity Due today: • Final Project: Proof Draft	Exam 3 <i>Exam 3 covers 5.1-7.6.</i>

*An asterisk next to a problem indicates that I have modified the problem or provided a hint. (A problem in parentheses is a challenge problem. Make sure you understand the other problems before attempting the challenge problems.)