Real Analysis, Unit 1 Plan, F2022

| Tues | Thurs |
|---|--|
| August 16, 2022 | August 18, 2022 |
| ragaet 10, 2022 | , tagast 16, 2022 |
| | Intro to Course; |
| | Preview 1.1-1.4 Intro to Real Numbers |
| | In class today: |
| | • D 1.1-1.4 (if time allows) |
| A 00. 0000 | , , |
| August 23, 2022 | August 25, 2022 |
| 1.1-1.4 Intro to Real Numbers (as needed) | 1.7-1.8 Archimedean Property of R, |
| 1.5-1.6 Bounds; Sups and Infs | Inductive Property of N |
| Due today: | Due today: |
| • Read 1.1-1.6, RQ 1.1-6 | • W 1.4* |
| • D 1.1-1.4 (as needed), D 1.5-1.6 | • D 1.7-1.8 |
| • Read 1.7-1.8, RQ 1.7-1.8 | Read 1.9-1.10, RQ 1.9-1.10 |
| August 30, 2022 | September 1, 2022 |
| 1.9-1.10 Density of Rationals, Metric Structure | 0.1.0.2 Coguenose and Countable Cote |
| Quiz 1 (Sups and Infs) | 2.1-2.3 Sequences and Countable Sets |
| | Due today: |
| Due today: | • W 1.9-1.10 |
| • , W 1.5-1.6, W 1.7-1.8 | • D 2.1-2.3 |
| • D 1.9-1.10 | • Read 2.4; RQ 2.4 |
| • Read 2.1-2.3; RQ 2.1-2.3 | Contember 9, 2000 |
| September 6, 2022 | September 8, 2022 |
| O. A. I. Conveyence (Intro.) | 2.4-II Convergence (Cont.) |
| 2.4-I Convergence (Intro.) | Quiz 2 (Convergence) |
| Due today: | Due today: |
| • W 2.1-2.3 | • W 2.4-I |
| • D 2.4-I | • D 2.4-II |
| | • Read 2.5; RQ 2.5 |
| September 13, 2022 | September 15, 2022 |
| 2.5 Divergence | 2.6-2.7 Boundedness; |
| 2.5 Divergence | Algebra of Limits |
| Due today: | D. A. Janes |
| • W 2.4-II | Due today: |
| • D 2.5 | • W 2.5 |
| • Read 2.6-7, RQ 2.6-7 | • D 2.6-2.7 • Read 2.8-2.0 BO 2.8-2.0 |
| September 20, 2022 | • Read 2.8-2.9, RQ 2.8-2.9 September 22, 2022 |
| September 20, 2022 | |
| | 2.8-2.9 Order Properties; Monotone Criterion |
| Exam 1 | Duo today: |
| | Due today: • W 2.6-2.7 |
| Exam 1 covers 1.1-2.4. | • D 2.8-2.9 |
| | • Read 2.10-2.11, RQ 2.10-2.11 |
| | |

^{*}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.)