

Number theory

Book: Ireland and Rosen – A Classical Introduction to Modern Number Theory

26/2	(IR) 1.1	Unique factorization in integers	Chap. 1: 1, 6, 10, 11
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28/2	(IR) 1.1-1.2	Unique factorization in polynomial rings	Chap. 1: 7, 13, 19, 20
1/3	(IR) 1.3-1.4	Principal ideal domains, $\mathbb{Z}[i]$ and $\mathbb{Z}[\omega]$	Chap. 1: 31, 34, 36, 37
4/3	(IR) 2.1	Infinitude of primes and Dirichlet's theorem	Chap. 1: 33, 35 Chap. 2: 1, 4, 6, 16, 17
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11/3	(IR) 3.1-3.3	Congruences in \mathbb{Z}	Chap. 3: 2, 3, 4, 8
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13/3	(IR) 3.3-3.4	Euler's theorem, Fermat's little theorem and Chinese Remainder Theorem	Chap. 3: 5, 12, 16, 23
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18/3	(IR) 5.1	Quadratic residues	Chap. 5: 2, 3, 6, 14, 15
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