§0.a Series [2GZ]

§0.a.a Tests

Theorem 0.1 (Root test)**.** *[219]*

Theorem 0.2 (Ratio test)**.** *[21C]*

Remark 0.3. *[0F1]*

Theorem 0.4. *[21D]*

The Dirichlet criteria implies the Liebniz "alternating series test" criteria.

Theorem 0.5 (Dirichlet criterion)**.** *[21F]*

In particular, if we set $a_n = (-1)^n$ we prove the existence of the limit in Leibniz test.

Theorem 0.6 (Alternating series test, or Leibniz test)**.** *[238]*

Theorem 0.7. *[0DR]*

§0.a.b Exercises

Exercises

E0.8 [214]

E0.9 [23D]

E0.10 [0DW]

E0.11 [0DY]

E0.12 [0F0]

E0.13 [0F2]

E0.14 [0F4]

E0.15 [0F5]

E0.16 [0F7]

E0.17 [0F8]

E0.18 [0F9]

E0.19 [21M]

E0.20 [23F]

E0.21 [20Z]

E0.22 [210]

QuasiEsercizio 1. *[0DT]*

QuasiEsercizio 2. *[0DV]*

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QuasiEsercizio 3. *[OFC]*

QuasiEsercizio 4. *[OFD]*

QuasiEsercizio 5. *[OFF]*

QuasiEsercizio 6. *[OFG]*

QuasiEsercizio 7. *[ODH]*

See also exercise [1T9].

§0.a.c Cauchy product

Definition 0.23. *[OFH]*

Exercises

E0.24 [OFJ]

E0.25 [OFK]

E0.26 [OFM]

E0.27 [OFP]

See also exercise [1KQ].

§0.b Generalized sequences, or "nets'

[29X]

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