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## Bibliography

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*The first group of eight books can be recommended for the quality of their exposition. They are arranged in approximate order of increasing sophistication and mathematical background required.*

J. H. CONWAY and R. K. GUY, *The Book of Numbers*, Springer-Verlag, 1996.

- *A delightful collection of the wonders of numbers.*

J. H. CONWAY, *The Sensual Quadratic Form*, MAA, 1997.

- *Where topographs first appeared. Very enjoyable reading.*

H. DAVENPORT, *The Higher Arithmetic*, Cambridge U. Press, fifth ed. 1982 (orig. 1952).

- *A classical and accessible introduction to number theory.*

M. H. WEISSMAN, *An Illustrated Theory of Numbers*, AMS, 2017.

- *Many illuminating pictures, with chapters on topographs and quadratic forms.*

J. STILLWELL, *Numbers and Geometry*, Springer, 1998.

- *A pleasing intermingling of algebra and geometry.*

A. WEIL, *Number Theory: An Approach Through History*, Birkhäuser, 1984.

- *A scholarly historical study by one of the 20th century greats.*

J. H. SILVERMAN and J. TATE, *Rational Points on Elliptic Curves*, Springer-Verlag, 1992.

- *A natural next step after the present book.*

J.-P. SERRE, *A Course in Arithmetic*, Springer-Verlag, 1973 (French orig. 1970).

- *A master expositor writing at the graduate level, in spite of the title.*

*Other books with coverage of quadratic forms, organized in the same way as the previous list.*

D. E. FLATH, *Introduction to Number Theory*, Wiley, 1989. AMS Chelsea 2018.

H. COHN, *Advanced Number Theory*, Dover, 1980.

H. E. ROSE, *A Course in Number Theory*, Clarendon Press 1994.

J. L. LEHMAN, *Quadratic Number Theory*, AMS, 2019.

F. HALTER-KOCH, *Quadratic Irrationals*, CRC Press, 2013.

D. A. BUELL, *Binary Quadratic Forms*, Springer-Verlag, 1989.

D. A. COX, *Primes of the form  $x^2 + ny^2$* , Wiley, 1989.

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*A few historical references, in chronological order.*

C. F. GAUSS, *Disquisitiones Arithmeticae*, English trans. Springer-Verlag, 1986 (Latin orig. 1801).

- *The first book about quadratic forms.*

P. G. L. DIRICHLET, *Lectures on Number Theory*, English trans. AMS, 1999 (German orig. 1863).

- *With supplements by R. Dedekind.*

A. HURWITZ, *Über die Reduktion der binären quadratischen Formen*, *Math. Annalen* 45 (1894), 85–117.

- *This article (in German) is where the Farey diagram first appeared.*