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mathematics consisted mostly
of applied analysis, most
notably: differential
equations; real and complex
analysis (including vector
and tensor analysis);

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approximation theory (broadly construed, to include asymptotic, variational, and perturbative methods, representations, numerical analysis); Fourier analysis; potential theory; as well as linear algebra and applied probability, outside of analysis.

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infinite series, and analytic functions. These theories are usually studied in the context of real and complex numbers and functions. Analysis evolved from calculus, which involves the elementary concepts and techniques of analysis.

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process of encoding and
decoding of reality, in
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is reduced to a formal
numerical expression by a
casual structure. From:
Artificial Neural Networks
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