

Functions of various kinds are "the central objects of investigation" in most fields of modern mathematics.

*Michael Spivak*¹

relation
finite
infinite
infinitesimal

Chapter 2

Functions

Relations, 1.

As we will see, the CALCULUS is about *calculating* with “functions” which are entities that “*are widely used in science, and in most fields of mathematics.*” ([https://en.wikipedia.org/wiki/Function_\(mathematics\)](https://en.wikipedia.org/wiki/Function_(mathematics)).)

1 Relations

That a “single point usually does not carry enough information” (?? ??, ??.) is in fact an instance of a general principle, namely that there isn’t a thing in the real world that stands alone, all by itself: every single thing in the real world is **related** to many other things.

LANGUAGE 2.1 The mathematical words :

- ▶ **infinite** (<https://www.dictionary.com/browse/infinite>),
- ▶ **infinitesimal** (<https://en.wikipedia.org/wiki/Infinitesimal>),
- ▶ **finite** (https://en.wikipedia.org/wiki/Finite_number),

⁰Calculus, 4th edition

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