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Mathematical physics - Wikipedia

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function | Definition, Types, Examples, & Facts | Britannica

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are traditionally very closely linked subjects. Indeed historical figures such as Newton and Gauss are difficult to classify as purely physicists or mathematicians.

Mathematical Physics | Department of Mathematics

The mathematical concept of function is

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used in physics to represent different physical quantities. For example the air pressure variation with time and space is called an acoustic wave. We use a function to represent a charge distribution (or even electric field strength) in space and time. In gravitation we use it to represent a mass distribution (and momentum

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distribution) in space and time.

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