

Calculus

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So, how much total force does the water exert on the dam face? There are a few other standard topics in such a course. Substitution of one function f into another g produces a new function, the function defined to have, at argument x , the value of f at an argument which is the value of g at argument x .

What is Calculus? Calculus is the study of change, and, unlike Algebra, Calculus ...

We discuss whether a sequence converges or diverges, is increasing or decreasing, or if the sequence is bounded. We start with an abstract definition of a function as a set of argument-value pairs and then describe the standard functions. Sam used Differential Calculus to cut time and distance into such small pieces that a pure answer came out.

1.2 What Is Calculus and Why do we Study it?

While it might not seem like a useful thing to do with when we have the function there really are reasons that one might want to do this.

Textbook

Put simply, while basic math uses operations such as plus, minus, times, and division $+$, $-$, \times , and \div , calculus uses operations that employ to calculate rates of change. It was the calculus that established this deep connection between geometry and physics—in the process transforming physics and giving a new to the study of geometry.

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