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Given a function  $f(x,y,z)$  and a number  $c$  in the range of  $f$ , a level surface of a function of three variables is defined to be the set of points satisfying the equation  $f(x,y,z)=c$ .

Example  $\{\}$ : Finding a Level Surface

## 14.1: Functions of Several Variables - Mathematics

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The Taylor series of  $f$  converges uniformly to the zero function  $T f(x) = 0$ , which is analytic with all coefficients equal to zero. The function  $f$  is unequal to this Taylor series, and hence non-analytic. For any order  $k \in \mathbb{N}$  and radius  $r > 0$  there exists  $M_{k,r} > 0$  satisfying the remainder bound (\*) above.

## Taylor's theorem - Wikipedia

In mathematics, a functional equation is any equation in which the unknown represents a function. Often, the equation relates the value of a function (or functions) at some point

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with its values at other points. For instance, properties of functions can be determined by considering the types of functional equations they satisfy.

## Functional equation - Wikipedia

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