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Special Functions Their Applications Dover

Bessel functions, first defined by the mathematician Daniel Bernoulli and then generalized by Friedrich Bessel, are canonical solutions $y(x)$ of Bessel's differential equation $x^2 y'' + x y' + (x^2 - \alpha^2) y = 0$ for an arbitrary complex number α , the order of the Bessel function. Although α and $-\alpha$ produce the same differential equation, it is conventional to define different Bessel functions for these two values in ...

Bessel function - Wikipedia

The six trigonometric functions can be defined as coordinate values of points on the Euclidean plane that are related to the unit circle, which is the circle of radius one centered at the origin O of this coordinate system. While right-angled triangle definitions allow for the definition of the trigonometric functions for angles between 0 and radian (90°), the unit circle definitions allow ...

Trigonometric functions - Wikipedia

The inverse hyperbolic functions, sometimes also called the area hyperbolic functions (Spanier and Oldham 1987, p. 263) are the multivalued function that are the inverse functions of the hyperbolic functions. They are denoted $\cosh^{-1}z$, $\coth^{-1}z$, $\operatorname{csch}^{-1}z$, $\operatorname{sech}^{-1}z$, $\sinh^{-1}z$, and $\tanh^{-1}z$. Variants of these notations beginning with a capital letter are commonly used to denote their ...

Inverse Hyperbolic Functions -- from Wolfram MathWorld

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A partial differential equation (or briefly a PDE) is a mathematical equation that involves two or more independent variables, an unknown function (dependent on those variables), and partial derivatives of the unknown function with respect to the independent variables. The order of a partial differential equation is the order of the highest derivative involved.

Partial differential equation - Scholarpedia

Deterministic modeling process is presented in the context of linear programs (LP). LP models are easy to solve computationally and have a wide range of applications in diverse fields. This site provides solution algorithms and the needed sensitivity analysis since the solution to a practical problem is not complete with the mere determination of the optimal solution.

Linear Optimization - UBalt

1. Provides outreach to at risk youth or special needs students and establishes a trusting and working relationship with them and their families; 2. Visits community agencies (law enforcement, housing, social services) to locate students who are at risk of dropping out of school or who have become involved in pre-delinquent and delinquent behavior;