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Cylindrical coordinates are a generalization of two-dimensional polar coordinates to three dimensions by superposing a height (z) axis. Unfortunately, there are a ... A piecewise function is a function that is defined on a sequence of intervals. A common example is the absolute value, $|x| = \begin{cases} -x & \text{for } x < 0; \\ 0 & \text{for } x = 0; \\ x & \text{for } x > 0. \end{cases}$ Overview. The most basic type of integral equation is called a Fredholm equation of the first type, $\int_a^b K(x,y) \phi(y) dy = f(x)$. The notation follows Arfken. Here ϕ is an unknown ... Bessel functions, first defined by the mathematician Daniel Bernoulli and then generalized by Friedrich Bessel, are the canonical solutions $y(x)$ of Bessel's ...