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Applied Partial Differential Equations: With Fourier ...

In mathematics, a differential equation is an equation that relates one or more functions and their derivatives. In applications, the functions generally represent physical quantities, the derivatives represent their rates of change, and the differential equation defines a relationship between the two. Such relations are common; therefore, differential equations play a prominent role in many disciplines including engineering, physics, economics, and biology. Mainly the study of differential equa

Differential equation - Wikipedia

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The first solution with $x > 0$ of the equation $\sin 2x = 1/4$ places $2x$ in the interval $(\pi, 3\pi/2)$, so to invert this equation using the arcsine we need to apply the identity $\sin(\pi - x) = \sin x$, and rewrite $\sin 2x = 1/4$ as $\sin(\pi - 2x) = 1/4$. The solution of this equation may then be found by taking the arcsine, and is.

Differential Equations - Department of Mathematics, HKUST

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Applied Partial Differential Equations with Fourier Series ...

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