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differential equation  
 in mathematics a differential equation is an equation that relates one or more unknown functions and their derivatives in  
 applications the functions generally represent physical quantities the derivatives represent their rates of  
 $y y' x$   
 $dx dx dy$   
 ordinary differential equation o d e  
 $x t f$  2024 3 24  
 differential equation  
 differential equations differential equations separable equations exact equations integrating factors and homogeneous equations and  
 more a differential equation is an equation involving an unknown function  $y f x$  and one or more of its  
 derivatives a solution to a differential equation is a function  $y f x$  that satisfies the differential equation when  $f$  and its  
 a differential equation is a mathematical equation that relates some function with its derivatives in applications the functions  
 usually represent physical quantities the derivatives represent their rates of change and the differential  
 properties of solutions of differential equations is fundamental to much of contemporary science and engineering ordinary  
 differential equations ode s deal with functions of one variable which can often be thought  
 equation  $y ay by 0$  is a known differential equation called second order constant coefficient linear differential equation since the  
 derivatives are only multiplied by a constant the solution must be a function that remains almost the same under differentiation  
 and  $e^x$  is a prime example of such a function

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differential equation

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in mathematics a differential equation is an equation that relates one or more unknown functions and their derivatives in applications the functions generally represent physical quantities the derivatives represent their rates of

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$$\frac{dy}{dx}$$

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ordinary differential equation  
 $\frac{dy}{dx} = f(x, y)$

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 $\frac{dy}{dx} = f(x, y)$  begin equation  $y = f(x)$

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2 2 2 2014 9 23 the differential equation  $y'' + ay' + by = 0$  is a known differential equation called second order constant coefficient linear differential equation since the derivatives are only multiplied by a constant the solution must be a function that remains almost the same under differentiation and  $e^x$  is a prime example of such a function

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