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Differential equations examples and solutions pdf

Warning: Can only detect less than 5000 charactersIs the order of the following differential equation? $(x^4 e^{3x} y^{(5)} + (3x^2 + 1) y \ddot{a} - \dot{a}^2 + 3Y = \sin x)$ suggestion What is the Higher derivative in the equation? Answer (5) We have already noticed that the differential equation $(y \ddot{a}, \dot{a}^2 = 2x)$ has at least two solutions: $(y = x^2)$ and $(y = x^2 + 4)$. The only difference between these two solutions is the last term, which is a constant. What happens if the last term is a different constant? This expression will still be a solution to the AI Warning: Can only detect less than 5000 charactersof the initial value $[y \ddot{a} - \dot{a}^2 e^{2y} = 4 \text{ so t\ddot{a}}, \frac{1}{8} \sin t, y(0) = 3]$. inumumber differential. Then check the initial value. In the example (PageDex {4}), the problem of the initial value consisted of two parts. The first part has been the differential equation $(y \dots \ddot{A}^2 + 2y = 3e^x)$, and the second part was the initial value $(Y(0) = 3)$. These two equat ions Together they constituted the problem of the initial value. The same is true in general. An initial value problem consists of two parts: the differential equation and the initial condition. The differential equation has a family of solutions and the initial initial condition Warning: Can only detect less than 5000 charactersDies the equation $[v \ddot{a}^*(t) = a \text{ g}]$. Note that this differential equation remains the same regardless of the mass of the object. Now we need an initial value. Since we are solving for speed, it makes sense in the context of the problem of assuming that we know the initial speed, or speed at the moment (0) this is indicated with $(0) = V_0$.) Example (PageIndex {6}): Moving Baseball speed A baseball is projected upwards from a height of (3) above the Earth's surface with an initial speed of (10 m/s)

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