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Application 1 : Exponential Growth - Population Let P(t) be a quantity that increases with time t and the rate of increase is proportional to the same quantity P as follows d P / d t = k P where d p / d t is the first derivative of P, k > 0 and t is the time. The solution to the above first order differential equation is given by P(t) = A e k t

Applications of Differential Equations
APPLICATIONS OF DIFFERENTIAL EQUATIONS 5 We can solve this di erential equation using separation of variables, though it is a bit di cult. We begin by multiplying through by P max P max dP dt = kP(P max P): We can now separate to get Z P max P(P max P) dP = Z kdt: The integral on the left is di cult to evaluate. The secret is to express the fraction as

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Therefore, the differential equation describing the orthogonal trajectories is . since the right-hand side of (**) is the negative reciprocal of the right-hand side of (*). If equation (**) is written in the form . note that it is not exact (since M y = 2 y but N x = −2 y). However, because . is a function of x alone, the differential ...

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