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behavior of solutions to more general equations and the possible difficulties in finding these solutions A word of warning is in order: In solving differential equations, integration plays an essen-tial role In particular, the separable equations in Section 22 always entail integration, as demonstrated in equations (2) and (3) above

R. Kent Nagle Edward B. Saff A. David Snider

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Differential Equations - Department of Mathematics, Hong ...

used textbook "Elementary differential equations and boundary value problems" by Boyce & DiPrima (John Wiley & Sons, Inc, Seventh Edition, c 2001) Many of the examples presented in these notes may be found in this book The material of Chapter 7 is adapted from the textbook "Nonlinear dynamics and chaos" by Steven

Differential Equations I

Differential equations are called partial differential equations (pde) or or-dinary differential equations (ode) according to whether or not they contain partial derivatives The order of a differential equation is the highest order derivative occurring A solution (or particular solution) of a differential equa-

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Linear Second-Order Equations (b) Using part (a),show that if the substitution is made in the CauchyÐEuler differential equation (6), the result is a constant-coefÞcient equation for , namely, (20) (c) Observe that the auxiliary equation (recall Section 2) for the homogeneous form of (20) is the same as (7) in this section If the roots of the

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Fundamental Matrices OCW 1803SC Solving the IVP using Φ(t) We can now write down the solution to the IVP x = A(t) x, x(t 0) = x 0 (5) Starting from the general solution (4), we have to choose the c so that the initial condition in (6) is satisfied

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