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Ordinary And Partial Differential Equations Ordinary and Partial Differential Equations by John W. Cain and Angela M. Reynolds Department of Mathematics & Applied Mathematics Virginia Commonwealth University Richmond, Virginia, 23284 Publication of this edition supported by the Center for Teaching Excellence at vcu Ordinary and Partial Differential Equations An ordinary differential equation (ODE) has only derivatives of one variable — that is, it has no partial derivatives. Here are a few examples of ODEs: Here are a few examples of ODEs: In contrast, a partial differential equation (PDE) has at least one partial

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