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problems for which analytical solutions are known, one must resort to numerical methods. In this situation it turns out that the numerical methods for each type of problem, IVP or BVP, are quite different and require separate treatment. In this chapter we discuss IVPs, leaving BVPs to Chapters 2 and 3.

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2.2 Step 1: Start Step 2: Initialize sum and count to zero Step 3: Examine top card.

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Properties of Matrices $\hat{\in}$ The determinant of a matrix is the product of its eigenvalues. $\hat{\in}$ Eigenvalues of lower triangular, upper triangular, and diagonal matrices are the diagonal entries of the matrix.

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numerical methods for Civil Engineering majors during 2002-2004 and was modi ed to include Mechanical Engineering in 2005. The materials have been periodically updated since then and underwent a major revision by the second author in 2006-2007. The main goals of these lectures are to introduce concepts of numerical methods and introduce

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