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A mathematical model for the evolution of the (still unspecified) quantity  $a_n$  could take the form  $a_{n+1} = r a_n + c$ . In words, the new value is a scalar multiple of the old value  $a_n$  set by some constant  $r$ . This model is common, e.g., it is used for modeling bank loans. One might amend the model to make the dependence depend on more terms and to include

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1 Introduction 1.1 What is mathematical

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modelling? Models describe our beliefs about how the world functions. In mathematical modelling, we translate those beliefs into the language of mathematics. This has many advantages 1. Mathematics is a very precise language. This helps us to formulate ideas and identify underlying assumptions. 2.

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Linear Algebra (The First Course of a Two-Semester Sequence) Dr. Eric R. Sullivan  
esullivan@carroll.edu Department of  
Mathematics Carroll College, Helena, MT  
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