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If x(0) = 0 then y(0) = 0 and the solution to the dimensionless model is y(¿) = 1ie¿=3: Yes, this is a reasonable model. The organism grows exponentially toward a limiting value. This is, in fact, observed with most organisms. 4. The constants in the problem, V, k, and a have dimensions [V] = L T; [k] = M T2; [a] = M TL: One time scale is p m=k which is based on damping. Another is

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His research interests involve problems integrating modeling and computational analysis. Professor Holmes has three published books in Springer's Texts in Applied Mathematics series: Introduction to Perturbation Methods, Introduction to the Foundations of Applied Mathematics, and Introduction to Numerical Methods in Differential Equations.

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That is, the solutions of Ax = 0 are the vectors of the form x = Nz. In other words, the columns of Nspan the null space of A. One can also use the technique to solve inhomogeneous equations Ax = b. One simply applies the theory to the augmented matrix [A b]. There is a solution when the last column of Ais not a pivot column. A particular solution

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