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When we put these two variables into the third equation we get  $16 + 12 + 2y_3 = 38$   $y_3 = 5$ . When all of these variables are put into the fourth equation we have  $8 + 6 + 15 + y_4 = 30$   $y_4 = 1$ . Using these values of  $y_i$  we now want solve  $\begin{bmatrix} 4 & 1 & 2 & 10 & 3 & 2 & 10 & 0 & 2 & 30 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{bmatrix} = \begin{bmatrix} 8 \\ 6 \\ 5 \\ 1 \end{bmatrix}$ . The fourth equation gives  $x_4 = 1$ .

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consider a matrix  $G$  of size  $(n + 1) \times (n + 1)$  partitioned into a leading matrix  $G_{11}$  of size  $n \times n$ .  $G = \begin{bmatrix} G_{11} & h \\ g_{n+1,1} & g_{n+1,n+1} \end{bmatrix}$ . Now by expanding the determinant of  $G$  along its last column we see that  $|G| = g_{n+1,n+1}|G_{11}| = g_{n+1,n+1} \prod_{i=1}^n g_{ii} = \prod_{i=1}^{n+1} g_{ii}$ , proving by induction that the determinant of a triangular matrix is equal to the product of its diagonal elements.

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Describe the asymptotic behavior of the solution as  $t \rightarrow \infty$ , and the stability properties of the zero equilibrium solution. Solution: The solution is still valid as a complex solution. If  $\operatorname{Re} a > 0$ , then  $u(t) \rightarrow \infty$  as  $t \rightarrow \infty$ , and the origin is an unstable equilibrium. If  $\operatorname{Re} a = 0$ , then  $u(t)$  remains bounded  $t \rightarrow \infty$ , and the origin is a stable equilibrium.

## **Solutions | Chapter 8**

From MATLAB's command line type `A = randn(3, 4)` to generate a  $3 \times 4$  matrix with random entries. To learn more about the `randn` command, type `help randn`. Now type `x = randn(4,1)` to get a vector (a  $4 \times 1$  matrix) of random numbers. To multiply  $A$  by  $x$  and store the result in a new vector  $b$ , type `b = A*x`.

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