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variables into the third

equation we get  $16 +$

$12 + 2y_3 = 38 \quad y_3 = 5$

. When all of these

variables are put into

the fourth equation we

have  $8 + 6 + 15 + y_4 =$

$30 \quad y_4 = 1$ . Using these

values of  $y_i$  we now

want solve  $\begin{bmatrix} 4 & 1 & 2 & 10 & 3 & 2 \\ 10 & 0 & 2 & 30 & 0 & 0 \end{bmatrix}$

$\begin{bmatrix} 1 & x_1 & x_2 & x_3 & x_4 \end{bmatrix} = \begin{bmatrix} 8 & 6 & 5 & 1 \end{bmatrix}$ . The

fourth equation gives

$x_4 = 1$ .

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*Page 7/27*

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consider a matrix  $G$  of size  $(n + 1) \times (n + 1)$  partitioned into a leading matrix  $G_{11}$  of size  $n \times n$ .  $G = \begin{pmatrix} G_{11} & 0 \\ h^T & g_{n+1,n+1} \end{pmatrix}$ . 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

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a triangular matrix is equal to the product of its diagonal elements.

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practice of numerical  
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Describe the  
asymptotic behavior of  
the solution as  $t \rightarrow 1$ ,  
and the stability  
properties of the zero

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equilibrium solution.

**Solution:** The solution is still valid as a complex solution. If  $\text{Re } a > 0$ , then  $u(t) \rightarrow 1$  as  $t \rightarrow \infty$ , and the origin is an unstable equilibrium. If  $\text{Re } a = 0$ , then  $u(t)$  remains bounded  $t \rightarrow \infty$ , and the origin is a stable equilibrium.

## **Solutions | Chapter 8**

From MATLAB's command line type  $A = \text{randn}(3, 4)$  to generate a 3 x 4 matrix

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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`.

## **Fundamentals of matrix computations | David S Watkins ...**

After looking at a few  
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### **Math 782 (EECS 782): Numerical Analysis II**

From MATLAB's  
command line type  $A =$   
 $\text{randn}(3, 4)$  to  
generate a  $3 \times 4$  matrix  
with random entries.  
To learn more about  
the  $\text{randn}$  command,  
type  $\text{help randn}$ . Now  
type  $x = \text{randn}(4,1)$  to  
get a vector (a  $4 \times 1$

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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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Solutions Now type  $x =$   
 $\text{randn} ( 4 , 1 )$  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  $b =$



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