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Chapter 1 Systems of Linear

Equations The following

are examples of linear

equations:  $2x + 3y - 7z =$

$29$   $x_1 + 7x_2 + x_3$

$-x_4 + 17x_5 = 3\sqrt{-10}$

$y_1 + 14y_2 + 4 = y_3$

$+13 - y_1 + 7r + \pi s \dots$

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consider a matrix  $G^{\sim}$  of size  $(n + 1) \times (n + 1)$  partitioned into a leading matrix  $G$  of

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size  $n \times n$ .  $G = \begin{pmatrix} G & \mathbf{1} & 0 \\ \mathbf{h}^T & g_{n+1,n+1} \end{pmatrix}$ . Now by expanding the determinant of  $G$  along its last column we see that  $|G| = g_{n+1,n+1} |G \mathbf{1} \mathbf{1}| = g_{n+1,n+1} \prod_{i=1}^n g_{ii} = \prod_{i=1}^{n+1} g_{ii}$ , proving by induction that the determinant of a triangular matrix is equal to the product of its diagonal elements.

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Introduction On this page you will find links to various problems from Dr. Watkins excellent book. This book is a very nice introduction to numerical linear algebra. It is quite enjoyable to read and has a very nice set of problems to work.

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