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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  $4 \ 1 \ 2 \ 10 \ 3 \ 2 \ 10 \ 0 \ 2 \ 30 \ 0 \ 0 \ 1x1x2x3x4=8651$ . 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  $n \times n$ .  $G = \begin{bmatrix} G_{11} & \mathbf{0} \\ \mathbf{0} & h \end{bmatrix}$   $g_{n+1,n+1} = 1$ . Now by expanding the determinant of  $G$  along its last column we see that  $|G| = |g_{n+1,n+1}| |G_{11}| = |g_{n+1,n+1}| \prod_{i=1}^n g_{ii} = |nY+1| = 1$  gii, proving by induction that the determinant of a triangular matrix is equal to the product of its diagonal elements.

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