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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  $4 \ 1 \ 2 \ 10 \ 3 \ 2 \ 10 \ 0 \ 2 \ 30 \ 0 \ 0 \ 1 \times 1 \times 2 \times 3 \times 4 = 8651$ . The fourth equation gives  $x_4 = 1$ .

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

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