

How to solve a system of linear equations

Elimination: Gauss-Jordan method

Example with complexity:

Step 1: $a_{11} \neq 0$

$$\begin{aligned} \text{Row 1} \times \frac{1}{a_{11}} & \rightarrow \begin{bmatrix} 1 & \frac{a_{12}}{a_{11}} & \frac{a_{13}}{a_{11}} & \frac{a_{14}}{a_{11}} \\ a_{21} & a_{22} & a_{23} & a_{24} \\ a_{31} & a_{32} & a_{33} & a_{34} \end{bmatrix} \end{aligned}$$

Step 2: $a_{21} = 0$

$$\begin{aligned} \text{Row 2} \times \frac{1}{a_{22}} & \rightarrow \begin{bmatrix} 1 & \frac{a_{12}}{a_{11}} & \frac{a_{13}}{a_{11}} & \frac{a_{14}}{a_{11}} \\ 0 & 1 & \frac{a_{23}}{a_{22}} & \frac{a_{24}}{a_{22}} \\ a_{31} & a_{32} & a_{33} & a_{34} \end{bmatrix} \end{aligned}$$

Step 3: $a_{31} = 0$

$$\begin{aligned} \text{Row 3} \times \frac{1}{a_{32}} & \rightarrow \begin{bmatrix} 1 & \frac{a_{12}}{a_{11}} & \frac{a_{13}}{a_{11}} & \frac{a_{14}}{a_{11}} \\ 0 & 1 & \frac{a_{23}}{a_{22}} & \frac{a_{24}}{a_{22}} \\ 0 & 1 & \frac{a_{33}}{a_{32}} & \frac{a_{34}}{a_{32}} \end{bmatrix} \end{aligned}$$

Step 4: $a_{32} = 0$

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Step 5: $a_{23} = 0$

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Step 6: $a_{12} = 0$

$$\begin{aligned} \text{Row 1} \times \frac{1}{a_{13}} & \rightarrow \begin{bmatrix} 1 & 0 & 1 & \frac{a_{14}}{a_{13}} \\ 0 & 1 & 0 & 1 \\ 0 & 0 & 1 & \frac{a_{34}}{a_{33}} \end{bmatrix} \end{aligned}$$

How to solve a system

Step

Result

Step 1: $a_{11} \neq 0$

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Factoring Trinomials A 1 Date Period Kuta Software

Richard Bailey



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