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Why Gaussian Elimination works

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Gaussian elimination. Example

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Examples Of Gaussian Elimination Dartmouth Example Gauss Elimination Solve the system of linear equations below using Gauss Elimination.  $x - 2y + z = -4$   $y + -2z = 0$   $2x + 4y + -3z = 3$  Set up the augmented matrix. Replace 3rd row by (3rd + (-2) x 1st). Divide 3rd row by 8 and replace 3rd by (3rd - 2nd).

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This method, characterized by step by step elimination of the variables, is called Gaussian elimination. Example 1: Solve this system: Multiplying the first equation by  $-3$  and adding the result to the second equation eliminates the variable  $x$ : This final equation,  $-5y = -5$ , immediately implies  $y = 1$ .

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Example 1. Solve this system of equations using Gaussian Elimination.  $2x + y - 3z = -10$   $-2y + z = -2$   $z = 6$ . Gimme a Hint ... Solve this system of equations using Gaussian Elimination.  $x - y - z = 4$   $2x - 2y - 2z = 8$   $5x - 5y - 5z = 20$ . Gimme a Hint . Show Answer ...

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$$L_2 + \frac{3}{2}L_1 \rightarrow L_2, L_3 + L_1 \rightarrow L_3.$$
 Once  $y$  is also eliminated from the third row, the result is a system of linear equations in triangular form, and so the first part of the algorithm is complete.