

The Unknown Steps of Solving Special Linear Systems with Multi Variables Pre Calculus ...

Lesson 244 | Precalculus | Row reduction and multivariable systems

<https://www.youtube.com/watch?v=svz77bHKwSk>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Use row reduction to solve $6x+2y=20$, $x+13y=54$.

02

Use row reduction to solve $3x+9y=66$, $x+10y=64$.

03

Use row reduction to solve $2x+7y=24$, $x+4y=13$.

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04

Use row reduction to solve $2x+7y=60$, $x+14y=114$.

05

Use row reduction to solve $7x+13y=81$, $x+10y=36$.

06

Use row reduction to solve $10x+4y=82$, $x+3y=29$.

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01 Use row reduction to solve $6x+2y=20$, $x+13y=54$.

Start with rows $[1,13|54]$ and $[6,2|20]$. $R_2 \leftarrow R_2 - 6R_1$ gives $[0,-76|-304]$. $y=4$; back-substitute to obtain $x=2$. RREF $[1,0|2];[0,1|4]$.

02 Use row reduction to solve $3x+9y=66$, $x+10y=64$.

Start with rows $[1,10|64]$ and $[3,9|66]$. $R_2 \leftarrow R_2 - 3R_1$ gives $[0,-21|-126]$. $y=6$; back-substitute to obtain $x=4$. RREF $[1,0|4];[0,1|6]$.

03 Use row reduction to solve $2x+7y=24$, $x+4y=13$.

Start with rows $[1,4|13]$ and $[2,7|24]$. $R_2 \leftarrow R_2 - 2R_1$ gives $[0,-1|-2]$. $y=2$; back-substitute to obtain $x=5$. RREF $[1,0|5];[0,1|2]$.

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04

Use row reduction to solve $2x+7y=60$, $x+14y=114$.

Start with rows $[1,14|114]$ and $[2,7|60]$. $R_2 \leftarrow R_2 - 2R_1$ gives $[0,-21|-168]$. $y=8$; back-substitute to obtain $x=2$. RREF $[1,0|2];[0,1|8]$.

05

Use row reduction to solve $7x+13y=81$, $x+10y=36$.

Start with rows $[1,10|36]$ and $[7,13|81]$. $R_2 \leftarrow R_2 - 7R_1$ gives $[0,-57|-171]$. $y=3$; back-substitute to obtain $x=6$. RREF $[1,0|6];[0,1|3]$.

06

Use row reduction to solve $10x+4y=82$, $x+3y=29$.

Start with rows $[1,3|29]$ and $[10,4|82]$. $R_2 \leftarrow R_2 - 10R_1$ gives $[0,-26|-208]$. $y=8$; back-substitute to obtain $x=5$. RREF $[1,0|5];[0,1|8]$.