


$m$

$$
\begin{aligned}
& \text { inuerses } \\
& \bigcirc- \\
& \begin{array}{l}
- \\
x- \\
\end{array} \\
& \begin{array}{l}
0 \\
0 \\
0 \\
0
\end{array} \\
& \text { matrices } \\
& 50
\end{aligned}
$$

$\downarrow$





$$
\begin{aligned}
& \text { More Succincty } \\
& \begin{array}{l}
\vec{A}=\vec{b} \\
\begin{array}{l}
\text { As m }
\end{array} \\
\begin{array}{l}
\vec{x} \text { is } n \times 1 \\
\vec{b} \\
\text { is mal }
\end{array} \\
\text { Ist question. Is There quy soln? } \\
\text { a unique solu? many solu? }
\end{array}
\end{aligned}
$$

$$
\begin{aligned}
& \frac{t_{i n}}{s} \\
& \frac{s}{\sqrt{n}}
\end{aligned}
$$

$$
\begin{aligned}
& \text { case - oleo metrically } \\
& A \vec{x}=\left[\overrightarrow{\vec{c}_{1}} \vec{C}_{2} \ldots \vec{C}_{n}\right]\left[\begin{array}{r}
x
\end{array}\right. \\
& \vec{x}_{1} \overrightarrow{C_{1}}+x_{2} \overrightarrow{C_{2}}+\ldots+x_{n} \overrightarrow{C_{n}}
\end{aligned}
$$

$$
\begin{array}{cc}
\stackrel{0}{5} & 11 \\
\stackrel{\rightharpoonup}{5} & 1
\end{array}
$$




$\underset{\gtrless}{\psi}$
$\frac{0}{2}$
c
0
$\stackrel{n}{3}$
$\stackrel{2}{3}$
3
$1-0$

$1 \times \rightarrow$
1010
15

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1111
15
$y$
$y$
$\nless \quad \stackrel{5}{\sigma}$

$1 \times 11$
S1s
s

$1 \times$


0
$4^{x}$


## $n^{n}$



11


- no
$\begin{array}{lll}- & 0 \\ -0 & 0\end{array}$
$\begin{array}{ll}0 & 15 \\ 3 & 11 \\ 1 & 1 x \\ 0 & 1\end{array}$
2
3
Now



| $\frac{2}{5}$ |
| :--- |
| $\frac{1}{3}$ |
| है |

E
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noh

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 2
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3
3



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0
$t 0$

