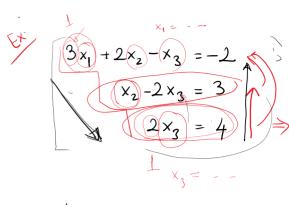
## 1st Week Friday

24 Subat 2023 Cuma 10:33

## Strict Triangular Form



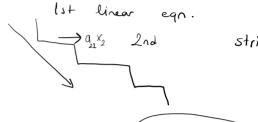
$$3x_1 + 2.7 - 2 = -2 \Rightarrow x_1 = -14/3$$



$$\Rightarrow \left(-\frac{14}{3}, \frac{7}{7}, 2\right) \Rightarrow \text{ the unique}$$

$$\text{for the}$$

$$\text{system}$$





m rows , n columns -> mxn matrix

$$q(j) \rightarrow the coeff of the jth variable (xj) in the jth eqn$$

mx (n+1) matrix results

$$3x_{1} + 2x_{2} - 1x_{3} = -2$$

$$0x_{1} + 0x_{2} + 2x_{3} = 3$$

$$0x_{1} + 0x_{2} + 2x_{3} = 4$$

The augmented matrix of this system is

3) 
$$(c)+c_j \rightarrow c_j$$
  $c \in \mathbb{R}$ 

$$\begin{bmatrix} 3 & 2 & -1 & | & -2 \\ 3 & 2 & 1 & | & 2 \\ -3 & -1 & -1 & | & 5 \end{bmatrix} \rightarrow \text{ an equivalent}$$
to the original property of the street original property or the street original property or the street o

$$\begin{bmatrix}
1 & 2/3 & -1/3 & -2/3 \\
-3 & -1 & -1 & 5 \\
3 & 2 & 1 & 2
\end{bmatrix}$$
an equivant

original original original

$$\begin{bmatrix} 1 & 2/3 & -1/3 & -2/3 \\ -3 & -1 & -1 & 5 \\ 6 & 4 & 2 & 4 \end{bmatrix} \rightarrow \begin{array}{c} \text{on equivalent} \\ \text{symm} \\ \text{or } \text$$