## Gebze Technical University Computer Engineering

MAT 214 2017 Spring

HOMEWORK 02 REPORT

MUSTAFA BİNGÜL 141044077

$$\beta(x,y) = (3,1)$$

$$\beta(x,y) = (-4,4)$$

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$$\beta($$

$$a_{11} + 2a_{12} + a_{13} = 2$$
 $2a_{11} + a_{12} + a_{13} = -1$ 
 $3a_{11} + a_{12} + a_{13} = -4$ 

$$a_{21} + 2a_{22} + a_{23} = 2$$
 $2a_{21} + a_{22} + a_{23} = 4$ 
 $3a_{21} + a_{22} + a_{23} = 4$ 

$$\begin{pmatrix} 1 & 2 & 1 \\ 2 & 1 & 1 \\ 3 & 1 & 1 \end{pmatrix} \begin{pmatrix} \alpha_{11} \\ \alpha_{12} \\ \alpha_{13} \end{pmatrix} = \begin{pmatrix} 2 \\ -1 \\ -4 \end{pmatrix} \Rightarrow \frac{\text{Gouss Elemination}}{\text{Glyguladiaj mizda}}$$

$$\alpha_{11} = -3$$

$$\alpha_{12} = 0$$

$$A = \begin{bmatrix} -3 & 0 & 5 \\ 0 & -2 & 6 \\ 0 & 0 & 1 \end{bmatrix} \rightarrow A^{-1} = \frac{1}{|A|} \begin{bmatrix} a_{12} & a_{23} \\ a_{31} & a_{32} \\ a_{31} & a_{32} \\ a_{31} & a_{32} \\ a_{31} & a_{32} \\ a_{32} & a_{31} \\ a_{31} & a_{32} \\ a_{31} & a_{32} \\ a_{32} & a_{31} \\ a_{31} & a_{32} \\ a_{32} & a_{31} \\ a_{31} & a_{32} \\ a_{32} & a_{31} \\ a_{32} & a_{32} \\ a_{31} & a_{32} \\ a_{32} & a_{31} \\ a_{32} & a_{32} \\ a_{32} & a_{31} \\ a_{32} & a_{31} \\ a_{32} & a_{32} \\ a_{32} & a_{32} \\ a_{33} & a_{32} \\ a_{32} & a_{33} \\ a_{33} & a_{32} \\ a_{34} & a_{32} \\ a_{35} & a_{35} $

Uggulan diginda;

$$\frac{1}{4} = \frac{1}{6} \begin{pmatrix} -2010 \\ 0-318 \\ 006 \end{pmatrix} = \begin{pmatrix} -\frac{1}{3} & 0\frac{5}{3} \\ 0 & \frac{1}{2} & 3 \\ 0 & 0 & 1 \end{pmatrix} / 1$$