$$\bigcirc$$

WYKEAD 4 Andrej lletota

$$z^{(1)} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$w^{(i)} = A z^{(i)} = \begin{bmatrix} 4 & 9 & z \\ 3 & 5 & 1 \\ 8 & 6 \end{bmatrix} = \begin{bmatrix} 15 \\ 15 \\ 15 \end{bmatrix}$$

(2)
$$(|A|)_2 = |\lambda| = 15$$

$$A^{-1} = \frac{1}{\det(A)} \cdot (A^{D})^{T}$$

$$A D = \begin{vmatrix} 5 & 7 & -37 & 35 \\ 16 & 86 & 81 \end{vmatrix} = \begin{vmatrix} 30-1 & -(18-56) & 3-40 \\ -(54-3) & 24-16 & -(4-12) \\ -(6 & 86 & 81) \end{vmatrix} = \begin{vmatrix} 32 & -42 & 49 \\ 51 & 37 & 35 \end{vmatrix}$$

$$= \begin{bmatrix} 23 & 38 & -37 \\ -51 & 8 & 68 \\ 53 & -72 & -7 \end{bmatrix}$$

$$(A^{D})^{T} = \begin{vmatrix} 23 - 51 & 53 \\ 38 & 8 - 22 \end{vmatrix}$$

$$A = \begin{bmatrix} \frac{23}{360} & -51 \\ \frac{38}{360} & \frac{8}{360} & -27 \\ \frac{360}{360} & \frac{360}{360} & \frac{7}{360} \end{bmatrix} = \begin{bmatrix} 0.06 & -0.14 & 0.14 \\ 0.11 & 0.02 & -0.05 \\ 0.11 & 0.18 & -0.02 \end{bmatrix}$$

$$e^{(1)} = 11 \begin{vmatrix} 0.066 \\ 0.066 \end{vmatrix} - 0.06 \begin{vmatrix} 1 \\ 1 \end{vmatrix} 11 = 0$$
 $2 \in$