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: יוורשט יואן. טלורט אור איייליש

 $g(x,y_1,y_2) = g(x,y_1) + g(x,y_2)$ (i)

 $cell = x, y \in V \quad \text{(3)} \qquad g(x, cy) = c \cdot g(x, y) \qquad (3)$

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x, y,, y, EV [.]

 $x_{1,x_{2},y} \in V$ Soft $g(x_{1} + x_{2}, y) = g(x_{1}, y) + g(x_{2}, y)$ (c) (2)

 $C \in \mathbb{F}$, $x, y \in V$ $\int_{\mathbb{S}} g(cx, y) = c \cdot g(x, y)$

(علماد الا على الدوريون)

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, R San 3mm (V, (·1·)) [F = R]

g(x,x) = (x|x) . g. fr wisern wisern by: V×V -- IR

IF frw 1782 12 V 1782 320 F (2)

.x,y ∈ V SS g(x,y) = 0 .3. So s22. N g: V × V → IF

.3. 22 NIN 3: Bx Bx N= By (3)

$$g(\begin{bmatrix} x_{1} \\ x_{2} \end{bmatrix}, \begin{bmatrix} y_{1} \\ y_{1} \end{bmatrix}) = x_{1}y_{1} - x_{2}y_{2}$$

$$(x_{1}x_{2}) = x_{1}y_{1} - x_{2}y_{2}$$

$$g(\begin{bmatrix} x_{1}^{2} \\ x_{1}^{2} \end{bmatrix}, \begin{bmatrix} y_{1}^{2} \\ y_{1}^{2} \end{bmatrix}) = x_{2}y_{1} - x_{2}y_{2}$$

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$$g(\begin{bmatrix} x_{1}^{2} \\ y_{1}^{2} \end{bmatrix}, \begin{bmatrix} x_{1}^{2} \\ y_{1}$$

$$[\alpha:j] = g(v_i,v_j) \qquad 0 \qquad \beta \leq \qquad C = \begin{bmatrix} \alpha_{i,1} & \dots & \alpha_{i,N} \\ \vdots & & & \\ \alpha_{m,1} & \dots & \alpha_{m,N} \end{bmatrix} \in \mathcal{M}_n(\mathbb{F}) \qquad \text{if } i \leq n$$

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$$9:\mathbb{R}^2*\mathbb{R}^2\to\mathbb{R}$$

$$V=\mathbb{R}^2$$

$$\mathbb{R}^2 \times \mathbb{R}^2 \to \mathbb{R}$$

$$V=\mathbb{R}^2$$

$$\beta = \xi = \left(\begin{bmatrix} 1 \\ 0 \end{bmatrix}, \begin{bmatrix} 0 \\ 1 \end{bmatrix} \right) \qquad \qquad \mathcal{O}\left(\begin{bmatrix} x_1 \\ x_2 \end{bmatrix}, \begin{bmatrix} y_1 \\ y_2 \end{bmatrix} \right) = x_1 y_1 - x_2 y_2$$

$$g([i],[i]) = 0$$

$$\mathcal{I}\left(\left[\begin{smallmatrix}1\\0\\0\end{smallmatrix}\right],\left[\begin{smallmatrix}1\\1\\1\end{smallmatrix}\right]\right)=1$$

$$\frac{1}{2}\left(\left(\frac{1}{2} \right), \left(\frac{1}{2} \right) \right) = -1$$