

Dato:

$$\forall X = (x_1, x_2, \dots, x_n), Y = (y_1, y_2, \dots, y_n) \in E(\mathbb{R}^n)$$

$$(X, Y) = \sum_{i=1}^n x_i y_i$$

$$1] X = (0, -3, 6) \quad Y = (-4, 7, 9)$$

$$2] X = (7, -4, 0, 1) \quad Y = (-3, 1, 11, 2)$$

Haiwan:

(X, Y)

Pembawa:

1.]

$$X = (0, -3, 6) = (x_1, x_2, x_3) \in E(\mathbb{R}^3)$$

$$Y = (-4, 7, 9) = (y_1, y_2, y_3) \in E(\mathbb{R}^3)$$

$$(X, Y) = \sum_{i=1}^3 x_i y_i = x_1 y_1 + x_2 y_2 + x_3 y_3 =$$

$$= 0 \cdot (-4) + (-3) \cdot 7 + 6 \cdot 9 = 0 + (-21) + 54 = 54 - 21 = 33$$

2.]

$$X = (7, -4, 0, 1) = (x_1, x_2, x_3, x_4) \in E(\mathbb{R}^4)$$

$$Y = (-3, 1, 11, 2) = (y_1, y_2, y_3, y_4) \in E(\mathbb{R}^4)$$

$$(X, Y) = \sum_{i=1}^4 x_i y_i = x_1 y_1 + x_2 y_2 + x_3 y_3 + x_4 y_4 =$$

$$= 7 \cdot (-3) + (-4) \cdot 1 + 0 \cdot 11 + 1 \cdot 2 = (-21) + (-4) + 0 + 2 = -25 + 2 = -23$$

Orban:

$$1] (X, Y) = 33$$

$$2] (X, Y) = -23$$