> *restart* :
> *with*(*LinearAlgebra*) :
> $a := Vector([1, 1, -1])$

$$a := \begin{bmatrix} 1 \\ 1 \\ -1 \end{bmatrix} \tag{1}$$

> $b := Vector([-1, 1, 0])$

$$b := \begin{bmatrix} -1 \\ 1 \\ 0 \end{bmatrix} \tag{2}$$

> $result\_1 := Transpose(a) \cdot b$

$$result\_1 := 0 \tag{3}$$

> $result\_2 := a \cdot Transpose(b)$

$$result\_2 := \begin{bmatrix} -1 & 1 & 0 \\ -1 & 1 & 0 \\ 1 & -1 & 0 \end{bmatrix} \tag{4}$$

>