



## *Ex 5: Linear transformation defined by a matrix*

The function  $T: R^2 \rightarrow R^3$  is defined as follows

$$T(\mathbf{v}) = A\mathbf{v} = \begin{bmatrix} 3 & 0 \\ 2 & 1 \\ -1 & -2 \end{bmatrix} \begin{bmatrix} v_1 \\ v_2 \end{bmatrix}$$

- Find  $T(\mathbf{v})$ , where  $\mathbf{v} = (2, -1)$

$$T(\mathbf{v}) = A\mathbf{v} = \begin{bmatrix} 3 & 0 \\ 2 & 1 \\ -1 & -2 \end{bmatrix} \begin{bmatrix} 2 \\ -1 \end{bmatrix} = \begin{bmatrix} 6 \\ 3 \\ 0 \end{bmatrix}$$

Therefore,  $T(2, -1) = (6, 3, 0)$

# Matrices And Linear Transformations

**Przemyslaw Bogacki**



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