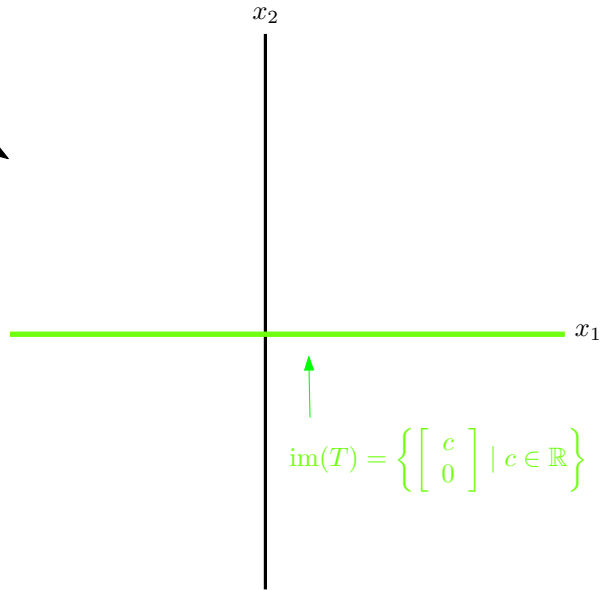
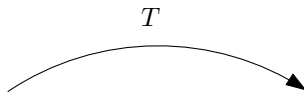


(i)



$$\text{im}(T) = \left\{ \begin{bmatrix} c \\ 0 \end{bmatrix} \mid c \in \mathbb{R} \right\}$$

(ii)