Source:

1 | #definition null space, kernel, null T def

For $T \in \mathcal{L}(V, W)$, the *null space* of T, denoted null T, is the subset of V consisting of those vectors that T maps to 0:

$$\text{null } T = \{v \in V : Tv = 0\}$$

1.1 | Properties

1.1.1 | 0 is always in null T