IF $T: \mathbb{R}^n \to \mathbb{R}^n$ IS A LINEAR OPERATOR, THEN A SCALAR λ IS CALLED AN <u>EIGENVALUE OF T</u> IF THERE IS A NONZERO $\vec{x}$ IN $\mathbb{R}^n$ SUCH THAT $T(\vec{x}) = \lambda \vec{x}$. THE NONZERO VECTORS $\vec{x}$ SATISFYING $T(\vec{x}) = \lambda \vec{x}$ ARE CALLED THE EIGENVECTORS OF T CORRESPONDING TO λ.

ADD THE STATEMENTS "THE RANGE OF T_A IS $\mathbb{R}^n$" AND "T_A IS ONE-TO-ONE" TO THE LIST OF STATEMENTS EQUIVALENT TO "A IS INVERTIBLE".