

$$\cos \theta = \angle A, \& 7$$

$$||A|| \cdot ||S||$$

$$\begin{array}{c} \langle V, u, z \rangle = \begin{pmatrix} -1 \\ -2 \end{pmatrix} A \begin{pmatrix} 1 \\ 1 \end{pmatrix} = -15 \\ \langle u, u, z \rangle = \begin{pmatrix} 1 \\ 1 \end{pmatrix} A \begin{pmatrix} 1 \\ 1 \end{pmatrix} = 47.5 \\ (1) A \begin{pmatrix} 1 \\ 1 \end{pmatrix} = 47.5 \\ (2) A \begin{pmatrix} 1 \\ 1 \end{pmatrix} = 47.5 \\ (3) A \begin{pmatrix} 1 \\ 1 \end{pmatrix} = 47.5 \\ (4) A \begin{pmatrix} 1 \\ 1 \end{pmatrix} = 47.5$$

IT(v) = IIVII VVEX T: X>Y Injective? Treeds to map to unique points. 3D > 2D con't be checked Surjectiv? Is there on invere?