

Name:

1. Consider the following matrix.

$$A = \begin{pmatrix} 1 & 2 & 0 \\ -3 & -5 & 1 \\ 1 & 2 & 1 \end{pmatrix}$$

(a) Find A^T .(b) Find $(A^T)^{-1}$.(c) Find $(A^{-1})^T$.

2. Find the distance between the vectors $\mathbf{u} = (2, 4, 0)$ and $\mathbf{v} = (1, -1, 1)$.