Name:

1. $\boxed{\text{T}}$ $\boxed{\text{F}}$ The dimension of the row space of a matrix is equal to the dimension of the column space of it.

2. **Name** the four fundamental subspaces.

3. The set of all the linear combinations of the rows of a matrix is _____ of A.

4. Find the left null space of $A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \\ 1 & 1 \end{bmatrix}$.