

Which is invertible. > False

3. If the set 
$$S = \{ v_1, v_2, ..., v_n \}$$
 is L.I. then the set  $S' = \{ v_1, v_1 + v_2 + v_3, ... v_1 + v_2 + v_3 + v_4 \}$ 
is also L.I.

Let 
$$\vec{V} = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$$
 &  $\vec{E}$   $\vec{W}$  = 3 + (-1) = 3 \ge 0 \sqrt{

If Wis a subspace rieW

5. Is 
$$W = \left\{ \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{bmatrix} \in \mathbb{R}^4 \left[ x_1 + x_2 + x_3 + x_4 = 0 \right\} \right\}$$
 a subspace of  $\mathbb{R}^4$ ?

True

$$A = \begin{bmatrix} D \\ I \end{bmatrix}$$
  $A^2 = \begin{bmatrix} I \\ I \end{bmatrix}$  False

15. True

$$T_A: \mathbb{R}^n \to \mathbb{R}^m$$