

$$Ax = 0 \Rightarrow A^{-1}Ax = A^{-1}O \Rightarrow Ix = 0 \Rightarrow x = 0$$

Planteamos una combinación lineal de las columnas de A que genera el vector nulo y veamos si podemos implicar que todos los coeficientes son o.

Sean 
$$a_i$$
 con  $i=1..n$  las columnas de A.

$$\sum_{i=1}^{n} X_i a_i = X_i | a_1 | + X_2 | a_2 | + \cdots + X_n | a_n$$

$$= | X_1 | a_1 | + | X_2 | a_1 | + \cdots + | X_n | a_n$$

$$= | X_1 | a_1 | + | X_2 | a_2 | + \cdots + | X_n | a_n$$

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$$= | X_1 | a_1 | + | X_1 | a_2 | +$$

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