Why are the columns of an invertible matrix I.i.?

Without presuming Theorem 8 in 2.3



https://mathwithbaddrawings.files.wordpress.com/2018/02/41.jpg?w=2200

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problematic reasoning: If the 2 columns of *A* are multiples the determinant will be 0 incomplete reasoning: the columns of *A* are li because $A\vec{x} = \vec{0}$ has only the trivial solution when A is invertible (why?).