Lec 8
Cool: for prine p, get GLA (IFD) is a finite group under multiplier
Real If I so IF. Then span of of Ui3; Given is
Q Z x i v i 1 x i c F J C V
Del V is Brite dim if Ja(vi) ien = V so spon(avi) = V
Del We say u, _ un is linear independent if any lin 11 mis reinas
Def we say $v_1 - v_n$ is linear independent if any lin nem is trivial  i.e. if $\sum_{i \in nun} \alpha_i v_i = 0 = 0$ $\forall i \in nun$
Day 1, 1 is a basis if it is spang & lining
eg. V=Fr (col vect). 10+ e: - (i)-;
Claim geizenis a bosso.
$(Q+\binom{x_i}{x_i}) \in E^{n}  (Q+\alpha_i'=x_i'  \forall i \in M^n  \binom{x_i}{x_i} = \overset{\sim}{\leq} \alpha_i v_i$
$\frac{2}{2} \frac{\partial^2 u}{\partial x^2} = \frac{\partial^2 u}{\partial x^2} = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = $
24 (2) is the show for Fr
Peopl Any fin dim's us has a finite pools
THE let & v; 3; FT be a finite spanning set.
CO Rivine & set  Dick JEI minimal 80 CV:3 in Still spor.
Cocontainment
ton seepe (on; ni) work or boom ten!) closed as a sinter
$\sum_{i \in J} \alpha_i v_i = 0  \text{let } \alpha_{i0} \neq 0  \text{Then } v_{i0} = \sum_{i \in J} \frac{-\alpha_i}{\alpha_{i0}} v_i$
=> du; 3 => Spanning => I not minimal

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