

(=)
$$a_{1} = a_{2} = ... = a_{m} = 0$$

=) e_{1} , ... e_{m} im limody independent (1)

(1) (1) =) e_{1} , ... e_{m} in a basis of f^{m}

(b) (1,2), (3,5) basis of f^{2}

Spanning: (amidly $\sigma = (\sigma_{1}, \sigma_{2}) \in F^{2}$ $\sigma_{1}, \sigma_{1} \in F^{2}$
 $\sigma = \alpha_{1}(1,2) + \alpha_{2}(3,5)$

(=) $\sigma = (\alpha_{1} + 3\alpha_{1} + 2\alpha_{1} + 3\alpha_{2})$

(=) $f_{n} + f_{n} + f_{n} = f_{n}$

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5.
$$\lambda$$
. $O_{1}(1,2,-4)$ + $O_{2}(1,-7,6)$ = $(1,0,0)$ =)

=) $Spom((1,2,-4), (7,-7,6))$ $+ F^{3}$.

=) $(1,2,-4), (7,-7,6)$ not a box's of F^{3} .

(d) $(1,2), (5,5), (4,13)$ not a box's in F^{2} .

(d) $(1,2), (5,5), (4,13)$ not a box's in F^{2} =) $Spom(1,0), (0,1)) = F^{2}$.

The booth of every spomming bit in F^{2} > the borgth of every independent bit =)

=) $(1,2), (3,5), (4,13)$ is not bimody independent in F^{2} =) not a box's.

(e) $(1,1,0), (0,0,1)$ box's of Y^{2} (X,X,Y^{2}) Y^{2} Y^{2}





