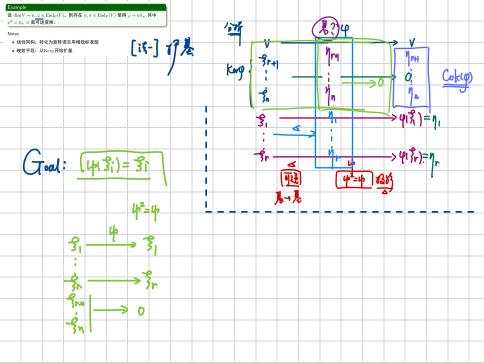
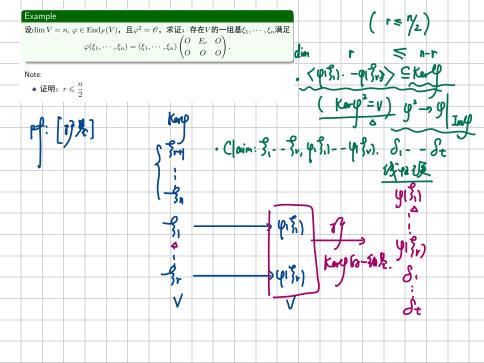
Notes: F^n 上的真子空间一定可以看成某个线性方程组AX = O的解空间,其 中A不可逆 41= < 2, - - 2, > 2; E = 34 B 3

	Example	
	设数域 $F\subseteq K\subseteq L$,则在下面两个运算下 K 成为 F 上的线性空间: F 中元素	
	与 K 中元素的数量乘 $法$, K 中元素的加法。同理 L 也是 K 上的线性空间,如	
	果 $\dim_F K < \infty$,则记 $\dim_F K = [K:F]$,证明:	
-	[L:K][K:F] = [L:F]	
	Notes:	
_	• Revisit your homework: $\dim_{\mathbf{Q}} \mathbf{Q}(\sqrt{2}) \neq 2$	_
	• $\dim_{\mathbf{Q}} \mathbf{Q}(\sqrt{2}, \sqrt{3}) = ?$	
	$ns = din_4 + din_4 +$	
	$\omega = c_1 \omega_1 + \cdots + c_m \omega_m$	
ł	YEZ,	
_	y= d, β, + - + dsβs (diek)	
	J= application KSK	
	β β β β β	
	[50x;]R+(50x;]R	
-	= (\frac{\frac{\zert_{\infty}}{\infty}}{\frac{\zert_{\infty}}{\infty}} \frac{\zert_{\infty}}{\text{\infty}} \zert_{\	-
	$= \sum_{i} C_{i} \alpha_{i} \beta_{i}$ $C_{i} \in F$	





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