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$\Rightarrow L(x) = \Lambda =$

	$i-2$	$i-1$	$i$
$(*, 1, \dots$	0	*	
$(*, 0.1, \dots$	0	*	
$\vdots$	$\vdots$	$\vdots$	
$i-2(0, 0, \dots, 0, 1$	*		
$i-1(0, 0, \dots, 0, 0, 0$	0	0	
$($	0	$\vdots$	0

\*

$$\Rightarrow \dim(\Lambda \cap V_{n-i+3}) \geq k-l+1 = k-(i-2)+1 = k-i+3.$$

Point: Either that  $\sigma_1, \dots, \sigma_{i-2}$  are linearly independent or that <sup>if</sup>  $\sigma_1, \dots, \hat{\sigma}_m, \dots, \sigma_{i-1}$  or  $\sigma_1, \dots, \hat{\sigma}_m, \dots, \sigma_i$  are linearly independent and  $\sigma_m$  can't be a member of linearly independent vectors, then  $\sigma_m = * \sigma_1 + \dots + 0 \sigma_{i-1}$  or  $\sigma_m = * \sigma_1 + \dots + 0 \sigma_i$ .

In the exactly same way, we can see that

$$\dim(\Lambda \cap V_{n-k+k-i+x}) \geq k-i+x, \quad x \geq 2.$$

Now it remains to show that  $\bar{c}'(\sigma_{j..j}) \subset P_i^{(j)}$ .

Suppose there is an element  $x \in L^{-1}(\sigma_{\hat{x}, \hat{y}}) - D_i^{(j)}$ .

Let  $\iota(x) = 1$ . Since  $x \notin D_i^{(j)}$ ,  $l = \dim \overline{\sigma_i(x), \dots, \sigma_i(x)} > i - j$ .

$L(x) = \begin{pmatrix} * & * & \dots & | & * & \dots & 0 & * & \dots & * & 0 & \dots \\ * & * & \dots & 0 & * & \dots & | & * & \dots & * & 0 & \dots \\ * & * & \dots & 0 & * & \dots & 0 & * & \dots & * & 0 & \dots \\ \vdots & \vdots & \ddots & \vdots & \vdots & \ddots & \vdots & \vdots & \ddots & \vdots & \vdots & \ddots \\ l & * & * & \dots & 0 & * & \dots & 0 & * & \dots & * & 1 & * & \dots \\ l+1 & 0 & 0 & \dots & 0 & 0 & \dots & 0 & 0 & \dots & 0 & 0 & 0 & \dots \\ & 0 & 0 & \dots & 0 & 0 & \dots & 0 & 0 & \dots & 0 & 0 & 0 & \dots \\ & \vdots & \vdots & \ddots & \vdots & \vdots & \ddots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \ddots \\ & 0 & 0 & \dots & 0 & 0 & \dots & 0 & 0 & \dots & 0 & 0 & 0 & \dots \end{pmatrix}$