Handwritten HW 20

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10. Find bases for the null space of the matrix below. Refer to the remarks that follow Example 3 in Section 4.2.

[1	0	-5	1	4]
	-2	1	6	-2	-2
	0	2	$-5 \\ 6 \\ -8$	1	9

Solution:

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44. Consider the polynomials $\mathbf{p}_1(t) = 1 + t$, $\mathbf{p}_2(t) = 1 - t$, and $\mathbf{p}_3(t) = 2$ (for all t). By inspection, write a linear dependence relation among \mathbf{p}_1 , \mathbf{p}_2 , and \mathbf{p}_3 . Then find a basis for Span{ \mathbf{p}_1 , \mathbf{p}_2 , \mathbf{p}_3 }.

Solution: