Line	earity.; f(x) > tunction, operation.
I) Sup	$yposition f(x_1+x_2) = f(x_1) + f(x_2)$
2) ho	nogeneity $f(\alpha x) = a f \alpha$.
eg.	$y = m\chi + n (\rightarrow N=0, m\neq 0)$
•	differentiation GUN/
	$\frac{d}{dt} \left(\mathcal{X}_i(t) + \mathcal{X}_2(t) \right) = \frac{d}{dt} \mathcal{X}_i(t) + \frac{d}{dt} \mathcal{X}_2(t).$
	1939 A
>	integration.
	$\int x_1(t) + x_2(t) dt = \int x_1(t) dt + \int x_2(t) dt$
7	matrix operation. (multiplication)
	$A(X_1 + X_2) = AX_1 + AX_2.$
	Vector operation.

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