



agreeton:
$$y = A[x + \alpha y] = Ax + \alpha Ay$$

$$y(1 - \alpha A) = Ax$$

$$y = A \times Ax$$

$$1 - \alpha A \times Ax + \alpha Ax$$

	(k-1)!	
y(t) =	U(t) + 264(t) +	2 t 4(t) + 2 t u(t) +
5	u(t) [+ 2 t +	$\frac{\overset{2}{\cancel{2}}\overset{2}{\cancel{2}}}{\overset{2}{\cancel{1}}} + \frac{\cancel{2}\overset{3}{\cancel{1}}\overset{3}{\cancel{1}}}{\overset{3}{\cancel{1}}} + \cdots$
	e u(t)	
	$\begin{array}{c} S(t) & \xrightarrow{\text{(system)}} \\ S(t) & \xrightarrow{\text{(input)}} \end{array}$	2 t * d - comes from C u(t) feedback part (output)
♦ Linear and	d time-invariant systems	*
a Linearity		
21 (f)) — H	y (t)
	x,(+) y,(+)	
		If system is linear
d 71.(4)	+ B 7/2 (+)	= 24,(+) + py_(+)
In general: 5	$\alpha_{i} n_{i}(t) \longrightarrow \sum_{i} \alpha_{i}$	र _ं पु _і (क)

