\_ اسر حبسن شنجی \_

نسان دهد كرهراك از توابع زير بك سيل صفى است.

$$Tf = f(\cdot) \text{ Model } T: P_n \to R$$

$$T(f+g) = Tf + Tg \cong T(x_n+y_n) = T(x_n) + T(y_n) (1 + \frac{1}{2}x_n^2)$$

$$T(cf) = cTf \cong T(cx_n) = cT(x_n)$$

1. 
$$T(f_1g) = (f_1g)(\cdot) = f(\cdot) + g(\cdot) = Tf_+ Tg$$

Y. T(cf) = (cf)() = cf() = cTf

idyly. The mill goslaw.

$$Y.(T(cf))(n) = (cf)(n+1) = cf(n+1) = c(Tf)(n)$$
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= T(A)+T(B)

The change Tong

	ا مىر دىس سودى
TA = trAdeid T: N	nxn >1R (
1. T(A+B): tr(A+B): trA+trB=T(A)+T(B) Y. T(CA): tr(GA): ctr(A) = C T(A)	A,BEMnxn CER
Tw/ Leo Ch.	w Tow
T(A+R) = (A+R)B-B(A+R) AB+RB-BA	Man (
- T(1 0) (1 0) (2 1 0) (2 0)	nan contact B
· ((A+B) = (A+B)B-B(A+B) = AB+BB-BA	1-133=
AB-BA=TA+TB	
Y. T(CA) = (CA)B-B(CA) = C(AB)-C	(BA) = C(AB-BA)=
cum) cop church T com	CTA