$\frac{\mathcal{O} = \mathbb{R}}{\mathbb{R}} : f \in \mathcal{C}(\mathbb{R}), \langle T, f \rangle = \int_{\mathbb{R}} f(u) f(u) du f \in \mathbb{D}(\mathbb{R})$   $\frac{\mathcal{O} = \mathbb{R}}{\mathbb{R}} : f \in \mathcal{C}(\mathbb{R}^{2}); \langle T_{\xi}, f \rangle = \int_{\mathbb{R}} f(u) f(u) du f \int$ Notion de divibution Test une distribution (=) T: D(M) -> 1K qui verific: \*T Linéaire: soient fr, le ED ona: \*T Continue: soit (fin) ED (N) to fin now Continuité vers 0?) \* PED(IR) => > => => == Rtg supple[-a,a] \* xupp ] = { X E R" / \$ (X) \$0 }) \* In # 3 => 3 m compact K to supply C K
et Y & TO SUPPLY ON THE NOTION OF THE NOTION O

Rg: (valeur abs: n'ed pous linéaire)

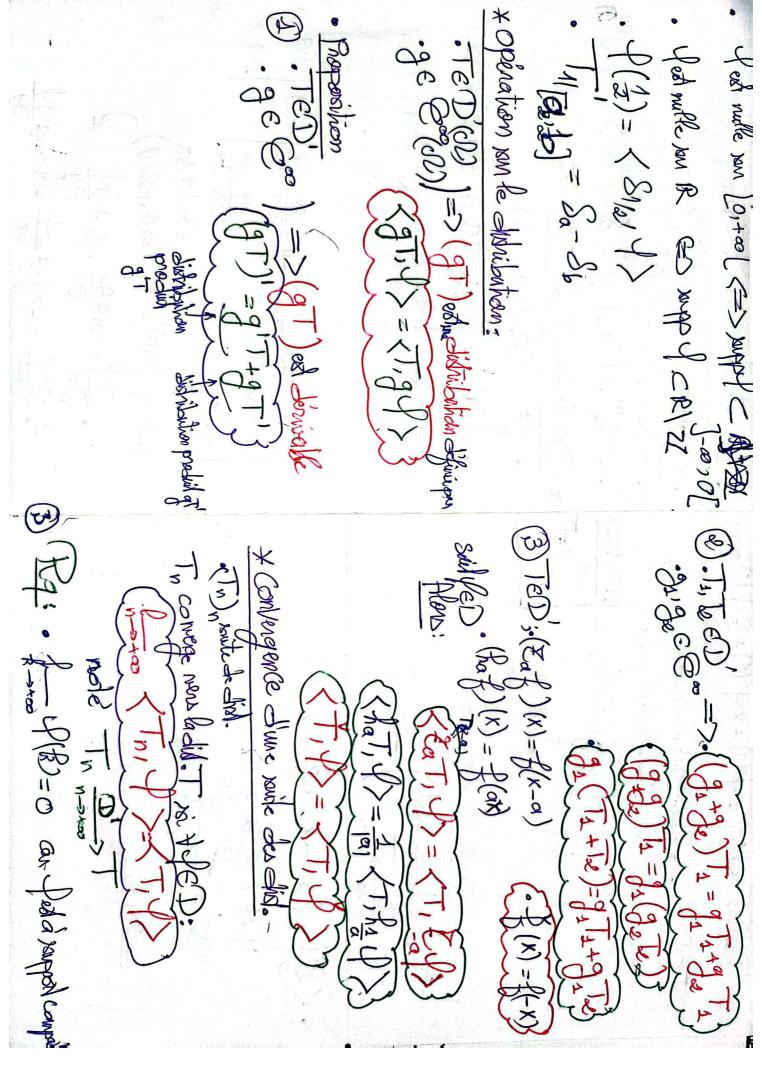
(Th)>=(-2)^(To P(N))

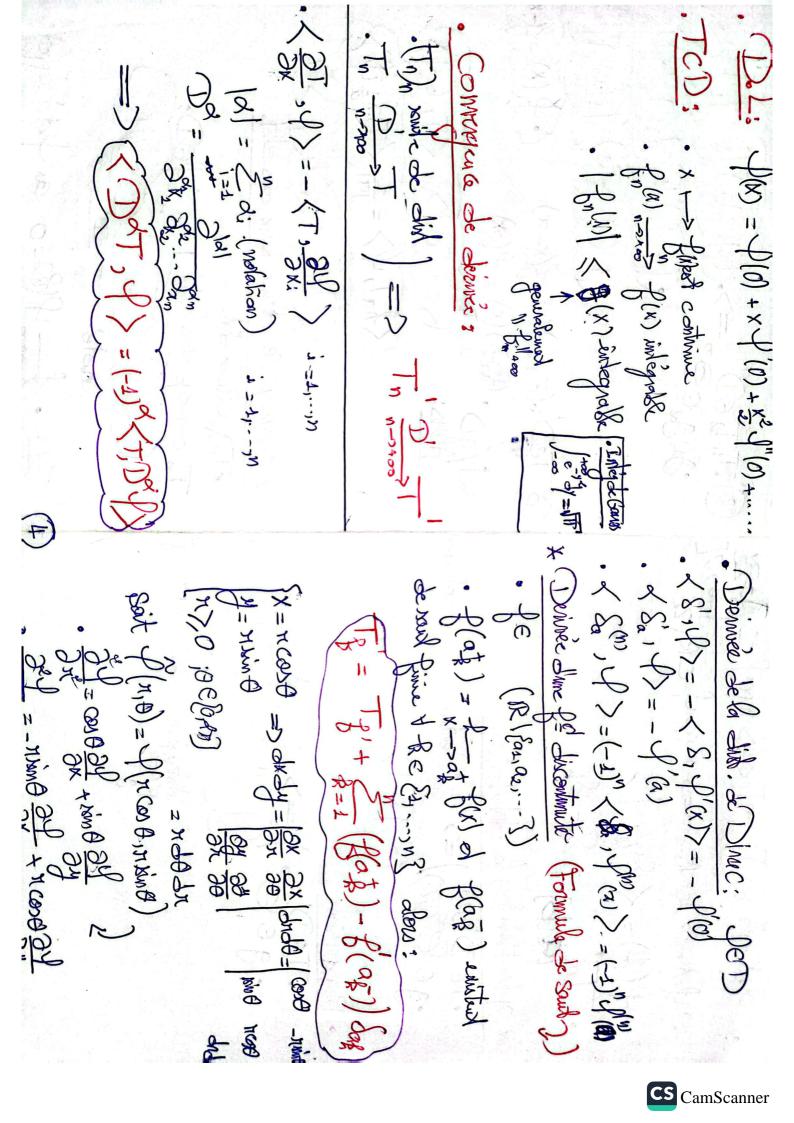
# (-2)(N)+(2(N))+(2(N)) \* H(x) = >2 x x>0 \* Dist. de Dinac: (Sa=8,=8) derivation (ou seus de dist):

derivation (ou seus de dist): \* Hest C.p.w => Ellect foc.inleg.xmp ( so Test more dist. => T de mure dist.) &Heli(R) = Ty eD définie par (T, 4>=- (T, 4)> (Cas general supp Sa= {a} Soil D(R) --> K (ROUA) (0 岁 ×人0 AHED Rg: dist. régulier -> )

- dist. Le divac -> peu d'intégrale Sifest continue => supplies = supple Sifest (x) = { 1 six x = a Li({2=0 p.p)} ( ) simon Li({2=0 p.p) . X -> Cos X od Loc. intégrable sun P.

donc <T, 1>= (fix) control de colon de dist. : C'est la - [HO] < [PO] < [PO] / [PO] <7,+>= < f(e)-from = < (&,+)-4,-+. distribution réquirie associé où la fix x 1->conx = \Se-S1014\>=> T= Se-S10 dist





Produit de convolution de edit. Sett:

\( \S \tilde{\text{T}}, \( \frac{1}{2} \) = \( \frac{1}{2} \), \( \fr

Transformed to Formerian

Espace de Schwarz SIR:

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The Jams S

Dut temperce: C'est sure fourse l'insceris des distinues son note S(R) - ensemble des distinues temperts.

D2(T\*\$) = D7\*5

+(T) suff quies equiennend sure did tempereral . Toute Dist. temperer I and eved mure I truste ma:金引子>=人下(小)> 晚s sail TES danc:  $\bigoplus f(T^{(k)}) = (\bigotimes W)^* \hat{T}$   $\bigoplus f(Z_{\alpha}T) = e^{-2i\pi x} \hat{T}$ ( es Max) +0 f(0)= Strat = \Ses+>= · Lineauce しくらき news impaule COOK & = 8 F(T1\*T2) = T1 +(Sa) = e-&: Trax ON SUCK

十(是丁)=一十(丁)(茶) · La T. F. d'une d'al. pairce (map. impaire) est paire (4(T)) \$2 + ((-2; TL) \$T)

Theorems. Ty, Te sout a distribuyences imposinge

lim more & out fattimuele elona: ナーナナーナー・ナー・ナー (人下・サンー・ Ttes continue elbijecture de \$(18) dans