Badjulda, Arrokaion

$$\frac{\sum_{x \neq y \neq 0}}{\sum_{x \neq y \neq 0}} \frac{\sum_{x \neq y \neq 0}}{\sum_{x \neq y \neq$$

US TOOD to kou karbon déronne t=0.

Bu. Av $\varphi: R \to R, \forall: R \to E$ eval C'(R) 7076 OL MEDIKES TRADOSMSOI

$$\frac{\partial \varphi}{\partial x_i}(x) = D_{e_i} \varphi(x)$$

Zzupoziopos Mepikur Majagujuv

Tpapovne

$$92i = \frac{39}{34i}, \quad 92i = \frac{39}{34i34i}$$
 $73i = \frac{39}{34i}, \quad 73i = \frac{37}{34i34i}$
 $73i = \frac{37}{34i}, \quad 73i = \frac{37}{34i34i}$

ran jenkintepa

Zxógio loxuer m ovupaon Troobeons, Tr.x.

$$\frac{\sqrt{13}}{1} = \frac{\sqrt{13}}{1} + \frac{\sqrt{2}}{2} + \frac{\sqrt{3}}{3}$$

$$= \frac{3\sqrt{1}}{3\sqrt{1}} + \frac{3\sqrt{2}}{3\sqrt{2}} + \frac{3\sqrt{3}}{3\sqrt{2}}$$

Zx6210 Vq= Psi'ei, VX=Vijs· ei&ej

Andraion Diavoquatiron Tedior AV V: R -> E, V = C'(R) n arroksion (divergence) TX V OTO XER G'rac 20 Badim 20 div x (x) = Vo x (x) = = $tr[\nabla \chi(x)]$ Mpoooxn' om Tegera. Axo Vox ME TEAtia Kar a'xo Ty xupis 7= xer'a Anjugua Me ouviorisons $div \times = \sqrt{i}i = \frac{\partial \sqrt{i}}{\partial x}$ $=\frac{3\frac{1}{2}}{3\frac{1}{2}}+\frac{3\frac{1}{2}}{3\frac{1}{2}}+\frac{3\frac{1}{2}}{3\frac{1}{2}}$

Scanned with CamScanner

ATTORDION TAN TESTION Eora T: Q - Lin Tavvoriko MEDIO ME TE C'(R). Harrokaion Tou I 000 X G'von to Siavuopa Tougoayetan dir I(x) = Vo I(x) TE'TOIO WITE (dint).d = din(Itd) (1) y d = orat. € E. Zxbzia Hapioti Mepia chai contepies suspero, To I'd evan Siav. HEDVO onote opiteran mattotion tou. H TIME TON I'D OTO KER ciral T(x)d. To d= oral. onpaire

d avefajtoro vor x ER.

One.
$$div I = Tijj ei'$$

$$\int_{av} Tijj = \frac{\partial}{\partial x_j} Tij$$

$$[div I]_{i} = Tijj = \frac{\partial}{\partial x_j} Tij$$

Apa (1)
$$\Rightarrow$$
 (6)
 $(V_j - T_j i_j i_j) dj = 0$ $\forall d$ (4)
Atto Trajiorgo Anjupa, ar
 $g_j = V_j - T_j i_j i_j$ rote
 $g_j dj = g \cdot d = 0$ $\forall d$
 $\Rightarrow g = 0$
orote (4) \Leftrightarrow
 $V_j - T_j i_j i_j = 0$ of me as and $v_j = 0$
 $V_i = T_i j_j i_j = 0$
orote $(div T)_i = T_i j_j = 0$
orote $(div T)_i = T_i j_j = 0$

Armoers 1) Arro of Giste to Amuja orn of 3. 3. auris this drajesur. Xpnot no mother our ord ord ses sia

2) Xpnon mondiote ouvious ses sia va pper te. div X(X) kan div T(X) ont

(x) (x) = x

 β') $\chi(\chi) = |\chi|^2 \chi$

 γ') $\pm (x) = x \otimes d$

 ξ') $T(x) = x \otimes x$