E= AHOETAEEOE DIAMEZH 3 1

Zx8010 H and ky 1000 diav, mediou

X= Vi'ei' sival o'mus Fe'pouple

20 Badjunzo'

V·V = 2Vi' = 2VI + 2V2 + 2V3

2x1 = 2x1 = 2x2 = 2x3.

Ever Att. Nortopo 3. Spapere $V_1 = V_1$, $V_2 = u_1$, $V_3 = W$ that $V_1 = V_2$ ouvisables V_1' ton V_2 kar $V_1 = V_2$, $V_2 = V_1$, $V_3 = V_2$ our $V_3 = V_4$ or $V_4 = V_4$ $V_4 = V_4$

T.V=div = $\frac{\partial u}{\partial x} + \frac{\partial v}{\partial y} + \frac{\partial w}{\partial z}$ TO GIVAL TO ISIO ME TO TOONS.

ESTOWON A LA TO $\frac{\partial v}{\partial x} = v_{i,i}$ estal togil TTO orgunates.

Ornana: ATTOKZION TAN TRESTOU T: Q - Lin eine to DIAN MESio divI = V.T = OTijei Envioraises To div I Exorue [div] = 2Tij tal

o j etras etavaja u Barb u eros, ereb o
i etras ejaidepos. Otrote av W(x) = divI(x) YXER $W_1 = \frac{\partial T_1}{\partial x_1} = \frac{\partial T_1}{\partial x_1} + \frac{\partial T_{12}}{\partial x_2} + \frac{\partial T_{13}}{\partial x_3}$ W2 = 2T2j = 2T21 + 2T22 + 2T23 2xj 2xj 2x1 + 2x2 + 2x3 W3 = 0731 - 0781 - 0782 + 2753

Open, To Wi = 2Tij XXI 70 isio mpajue.

Scanned with CamScanner

Tapaderspa Eorw I: E-Lin, I(X) = X8X YXEE opiser éva TAN medio, του οποίου or Tyun oro XEE siac o TAN XOX. Mn' overete ro I(X)=XOX NETO I'd HOW HIRE To Siavoqua Id = (xox)d=(x·d)x. Bpiokonue to diav. Hedio W = diu T ME ouvironats. Exw Tij = xixi apa Wi = 3x, Tij = 3x, (xixi) = $=\left(\frac{3\times i}{3\times i}\right)\times i + \times i\frac{3\times i}{3\times i} = \frac{3}{3}\times i + \times i\frac{3}{3}i$ $= \chi_i' + 3\chi_i' = 4\chi_i'$ Прообохи di=3, Sij #1. apa div(xox) = 4x Yxe E

O Emprua Anokaions

E OTWO R C E PROPIE'M

avoiktn' TEPIOXY KE KAVOVIKÓ

o'vopo DR KOU E JWTEPIKH'

poradiela Ka'DE TO M = M(X)

pia XEDR.

FOTWORV 3 TEDIÓN POPOPIEVA

OTNV KACIOTN' TEPIOXY R=RUDOR

BADRIWTO G: R > FIR

SIAV. V: R > E TANTIEDIO T: R> FIN

KOU TO TOIR E C'(R). TOTE.

$$\int_{\partial \mathcal{R}} \times \mathcal{R} dA = \int_{\mathcal{R}} \operatorname{div} \times dV \qquad (2)$$

Zxoqia!) Ta oxok inpurata
omiv opioi epn' njerpa Tuv (1), (2), (3) Jan de aval oroponera Ta opokympulmara orn de 512/ Terpal einan gokgmpulmara ofkov. S...dV ornv Treploxm' R. 2) Karoviko odropo sumas ves ом отоледентам ато петераорейо

2) Κανρνικό σύνορο σημανίκη ομ απο τεχείται απο πεπερασμείο αριδμο χείων επιφανειών που συναντόνται στο πεπερασμείο αριδμού γείων το ξων. Οι επιφανείει πχ. σφαίραι, κύρον, εχει γο ενδούς είνειι κανονικες

3) H smoth oas oxton airan n (2).

2) H smoth oas oxton airan n (2).

2) Ha Siav. TESia ottas ottor ATI.3.

Dins edu Siretan oxton soa Babinara

TESia (1) ran TAN TESia (3).

4) To Ou. Erral era alto Ta 1110 onpartika Dempornata Tus Madnuatiknis Protkus. Dy. EVTOTTIONON Av ge C(R) Kar J4dV=0 +_12 = R TOTE Q(X)=0 + X = Q. Zxózio. Topogarus SqdV=0 de onnaiver on $\varphi(x) = 0 \ \forall x \in \mathbb{R}$. Opus av TO 010 EXNÍPULLA OF OTTO 10 ON 100 TE NTOODROJO TIS Q unden JETAL TOTE avagrastika TO q G'ran Travioù undév!

Aσκηση Χρησημοποιώντας τη (2) στο Ομ. Απόκρισης αποσείξτε τις (1) και (3)!!!