D pinger 2 7'26) P'K c wind you mine, " ' PN'N 12 67" DK = VIK11/9 0x + by + cz = d $x^{2}+y^{2}+z^{2}=1$ 2) 30 3 (x,y,z)) Z = f(x,y) } = NOOP FOIR BY 9, di (NIC CNI MISIC) INK 116PM x'n SCIR MARA 11 2-280 DES DES LINIA MARIA MICED 13/2 USIR2 6 63 : assum: (F) Bod a chisic: (f) 30 $\mathcal{F}(u, r) = (u, r, \frac{1}{c}(l-\alpha u - br))$ $\sigma(u,v) = (u,r,f(u,r))$ NON 're P'33: 22 '28 on 0+(U/V) = (U/V, J1-42-42) $O_{-}(U,V) = (U,V,-\sqrt{1-U^2-V^2})$ GUSILIO - GRAIA SI TO

7 perb W Ty+= (4, J-42-12, V) Jy- = (U, - J1-42-12, Y) (est-1 acies 2 (0,0/1 +) ... die des Mar 8 x10 du 90,00, 10 x100 ou cour 1 (2 parcerous 100 de 12 mbo) ocher 12 mbo.

Ope 6 po 1000 ou cour 1000 co 9 do 100 co 12 mbo.

Ope 6 po 1000 ou cour usion color ocher 12 mbo.

Ope 12 mbo. 12/60160 7 V for 21/6/10/6 1916, 2013 John Julie איך שיק משבירים שמוטות ונאלרות וכול בירים שמוטות ונאלרות וכול 12N 7/11 25 80 DIENS 45 e 20 noen rin 1-812 noen :3 masson 2 News Jap = $\begin{bmatrix} \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} \end{bmatrix}$ inditare 1 1/3 /3 (11) 2 1/3 (11) 30 (1) 30 $u, y \in (-1, 1), \quad f(u, v) = (u^3, v^3, uv)$ (0,0)

(3.) UNE (-1,1)	$F(u,v) = \begin{bmatrix} u^3 + u + v \\ u^2 + uv \\ v^3 \end{bmatrix}$	(Z)
	$\mathcal{T}_{f}(\circ) = \begin{bmatrix} 1 & 1 \\ 0 & 0 \end{bmatrix}$	
U, V EIR	$f(u,r) = \begin{bmatrix} u \\ \sqrt{u^2 + v^2} \end{bmatrix}$.3)
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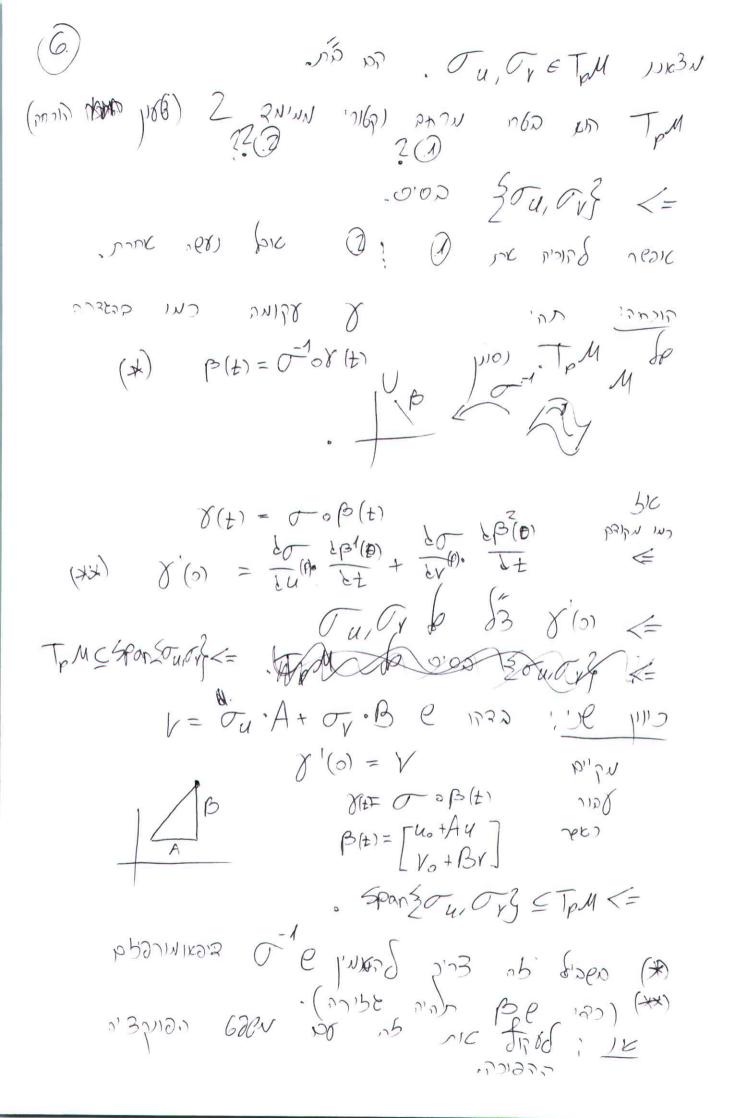
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PINE R3 miles of 116.0 i upper bish (3) 2 vieing Z (2,6× viein 6, € 1 2000 m -12000 iz'xisiona [Wiki Quolics D mond] -> 15) 'A' (7) - 1'en vi 16, nu 96 345 330 4000 véoni 22 DE · Signy vieiny Sus buin negenu pie 2 piba 116 EX 7183 106000 for prediens oxin (14) U > ,1808 -1804 (3) (1) 100 cok (A) 100 pi 400 ho Egregium 100 mgc 104

Marifold - M = fore -5 : (p 'pip Sd pieun neun) TpM nige) X: (-2,2) -> Al 7 Pingings Sufore -5 2 8(0) 8 (- E, E) -> Al 7 . M d j'er V <=> V ETPM Q'E) John of Mar OEwin, By M. (7) innon (2) Mat 47 (1) Mud (b), 1 Ber 1910, 1 Blev P & ZINS INK 1"36 P/1 . MICKIN 2173, ADD INK DISIN JUKA AC DIC $or T_pM+p$ 10,1011, y TpM=5pan 20u, 0, 8 135'16NDD 136'12E'1. $y_{\mu(s)} = \frac{\partial \sigma}{\partial u} (P_{\mu(s)}) \cdot \partial \beta_{\mu} + \frac{\partial \sigma}{\partial v} \cdot \partial \beta_{\mu} = \frac{\partial \sigma}{\partial u} (p) = \sigma_{\mu}$ J. (0) =



(164 Dair X = 0.0 B 7 (5) = July + July 2 Q Et : RZ -> TPM 1801 July 2-1600 pg 22 pg 125 $d\sigma(Y) = \sigma_{u}Y' + \sigma_{v}Y^{z} = \left[\sigma_{u}\sigma_{v}\right]\left[V^{z}\right] = J_{\sigma}\left[V^{z}\right]$ SONVISK ET E PS N'E " UIRU) birzo Jesu un deisiss 1013 P10 for Lo GO (1019 MA) 21013 F(u,v) = (u,v, f(u,v)) $A = \delta u, B = \delta v$ $\int_{a}^{b} u = \begin{bmatrix} 1 & 1 & 0 \\ 0 & 1 \end{bmatrix} \quad \nabla_{u} = \begin{bmatrix} 1 & 1 \\ 0 & 1 \end{bmatrix}$ TPM = { Ju. A + J. B | ABER} [A,B) = 2 (M, M, Fu. A + Fv. B) } -(A,B) = (A,B, Vf. [A])

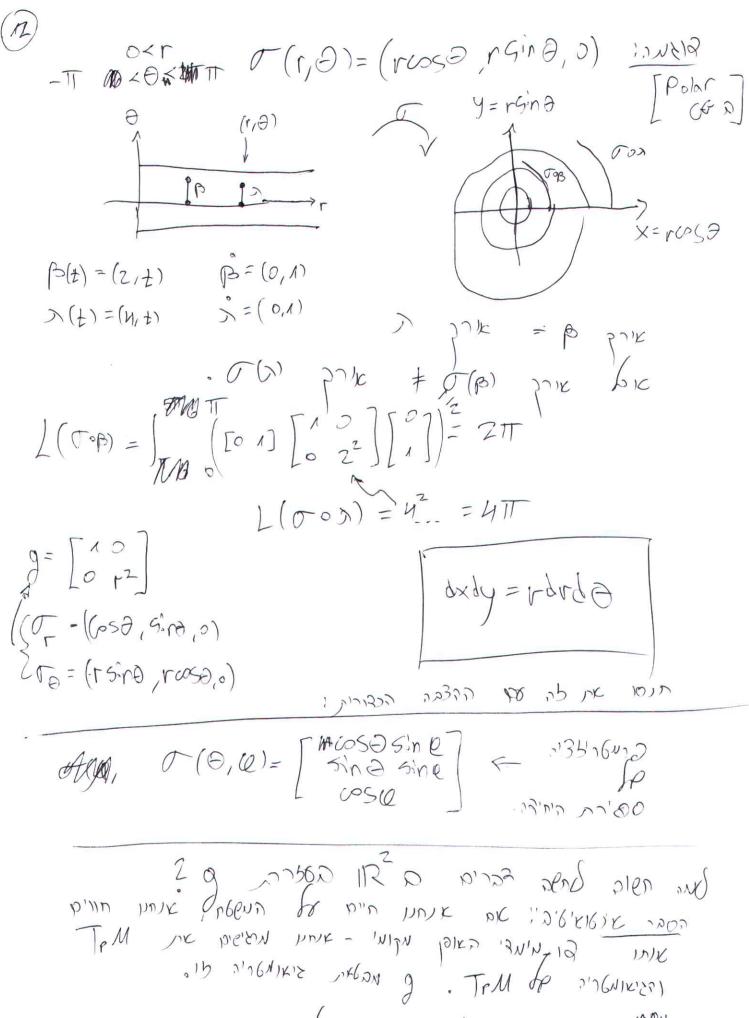
P+TpM = 3(A+P', B+P', B3 + Vf. [B]) IA, BER . f & 1 190 not 16 prij 26, by b+80[8n] byss Les de unida & Y([a,b]) ⊆ M DUND JULY RYLL CANCE @:[a,5]->1R2 $= \int_{0}^{b} (4) || \sigma_{u} \cdot \beta^{1} + \sigma_{v} \cdot \beta^{2} || dt = \int_{0}^{b} (\langle \sigma_{u}, \sigma_{u} \rangle \langle \beta^{1})^{2}$ +2<0,0, \$\$32+ <0,0,0,0(62)2)2 1/2 dt

Tour Kongration $= \int_{0}^{\infty} \left[\left[\left[\frac{\beta^{2}}{\beta^{2}} \right] \left[\frac{\beta^{2}}{\beta^{2}} \right] \left[\frac{\beta^{2}}{\beta^{2}} \right] \right] \int_{0}^{\infty} dt$ 1 g12 = < Tu, Ty7, g = < TV, Ty) $\begin{cases}
3 = \begin{bmatrix} -\sigma_{u} - \\ -\sigma_{v}^{t} - \end{bmatrix}
\end{cases}$ · 17/26N2 - 9 9); U,V & 213 pp g , Nd wee

13 you like on 3 you g , NK 130 DL(8) pend nex ירך מפלרית או הב"ם אינסורעציה ע צאו פחלרה אינסורעציה ע צאו $VET_{r(p)} = \frac{1}{2} \left[\frac{1}{2}$ w + g = < dop(R), dop(w)> 100860

נוכעין wtg R = < 04,047 WR + 14/2 O4, 07 WR + < 04,07 WR + <0,0,702R1 = < oun'+ oun', our' + orr' > = < J.W / J.R> [ou ou][R] = $< \delta \sigma_p(v) / \delta \sigma_p(R)$ > · Total 2 2/ 27 250 < w, R>g = w gR W=0 <=> <w,w>>0,0 (4) e por hour don the م عمر المعلا و المورد. . المعلا و المورد . for pullback - in mengs Zw, R7g 2 g 196 Medes send YXXP · 2(0),8(0) (1) אר, הלווית ארים מהפסים כאלרת עוב

(R)
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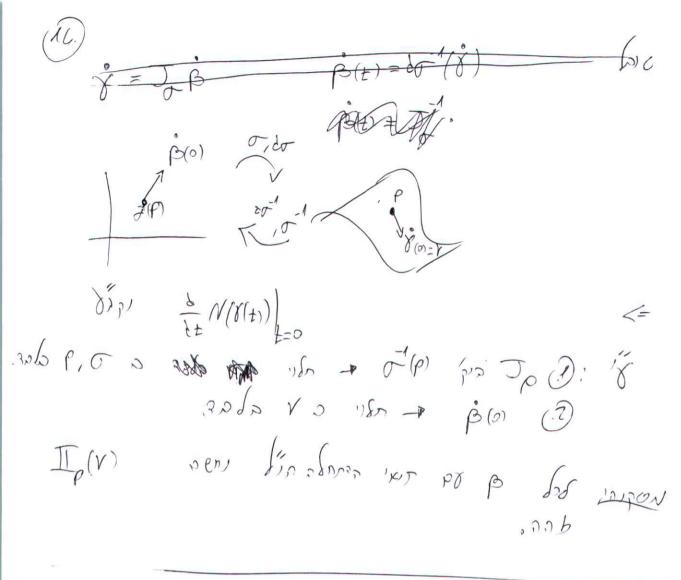


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\(\times 318 80, 11230 M CNEX 05 NOVE KS יאת (סובן באומליה ביפתציאלית. ביפתציאלית. المرديمة معران ولا المراج والمراجع والمراجع والمراجع والمراجع المراجع والمراجع والمر byld " ucon go " I, nin do seu g ; " Usen" mason jebud zing US-SIE MAZINIL! <=> das K TEM (10 BB G18 B9 JUN UNGO PROMU <>> graf K : grun 1/21 6, 6, 406mg 105 W<- 1 : D Nec 200 L : 1 -> W < mon ou, or 11 Jux JV11 \$0

אש שומ קורטים לצי מפלה בלל ליהניל כנואה נכנן! $\frac{\partial +}{\partial t}(0 \times b) = \frac{\partial +}{\partial t} \times b + 0 \times \frac{\partial +}{\partial t}$ (alcumi 1350 + (m) + Golulium dxo). $\mathcal{N}_{p} = \frac{\sigma_{u} \times \sigma_{v}}{\|\sigma_{u} \times \sigma_{v}\|}$ [CGD Nobius] (PUDN Kd $N(\rho) = -\frac{\tau_{u} \times \tau_{v}}{11 \tau_{u} \times \tau_{v}} \quad \text{and} \quad \text{one in a prival in the priva$ Joeto = MINAMAN NIM->5 M EC (6175) - CLEL, 2410 - (LLEL, 29). GURL AINT List of things Gouss Joins pe to pros pieux e . [duki » wese w xx 2050 2003 05 . TEST = 11-11=1 1 806 764 200 101150 10110 (66 D Gau45/100] $\mathcal{F} = N \circ \sigma : U \rightarrow S^2 \qquad \text{prod}$

inter for Nowing رام مرورط وهراس عادر حدرالا عاده! WEGG BUSIS & DEM (D! NOOK R DISTURING OF THE ONLY OF T K = <-N, T7 $\angle -\frac{1}{2}N(\delta(\mathbf{s}), \dot{\gamma}(0)) = \underline{\Pi}_{\rho}(v) = \mathcal{G}(v)$ Cuipa: (N) I UM CCIA of (392) (10) (COS) MC- (3,3-); & (390, CUICM) CCIM (N) I UM). 1 N 20 6 2 LODY & JUNIA 3 SCIN N. 31881. DE 28 (101) , x8 28 D 1,80 (A) = 10/8/10 2 min 100 maron 12 (2) 2(-) 3 mg (3) ? PIDEN P'K (2) . 2780 P= NOT E INNE : (1), (6) Min's Puilr = (E):(-EE)=U you (2)=0-1(b) (1) (1) (2) B(0) = 300 (V) = N(8(t)) = = + M NOT op(t) = $=\frac{1}{24}\rho\circ\beta(t)=\rho_u\cdot\beta'(t)+\rho_v\beta^2(t)$ orener & B(t) a reins YER 65 PB(0) = V $= \begin{bmatrix} 1 & 1 \\ P_4 & P_7 \end{bmatrix} \circ \begin{bmatrix} \beta'(t) \\ \dot{r}^{5^2}(t) \end{bmatrix}$



$$\frac{1}{1}\rho(Y) = \langle -\left[\begin{matrix} \rho_{u} & \rho_{v} \end{matrix}\right] \begin{bmatrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \begin{bmatrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle = -\langle \rho_{u} \beta_{v}^{2} + \rho_{v} \beta_{v}^{2} \end{matrix}\right] \rangle \left[\begin{matrix} \beta_{v}^{2} \\ \beta_{v}^{2} \end{matrix}\right] \rangle \left[\begin{matrix} \beta_{v}^{2$$