

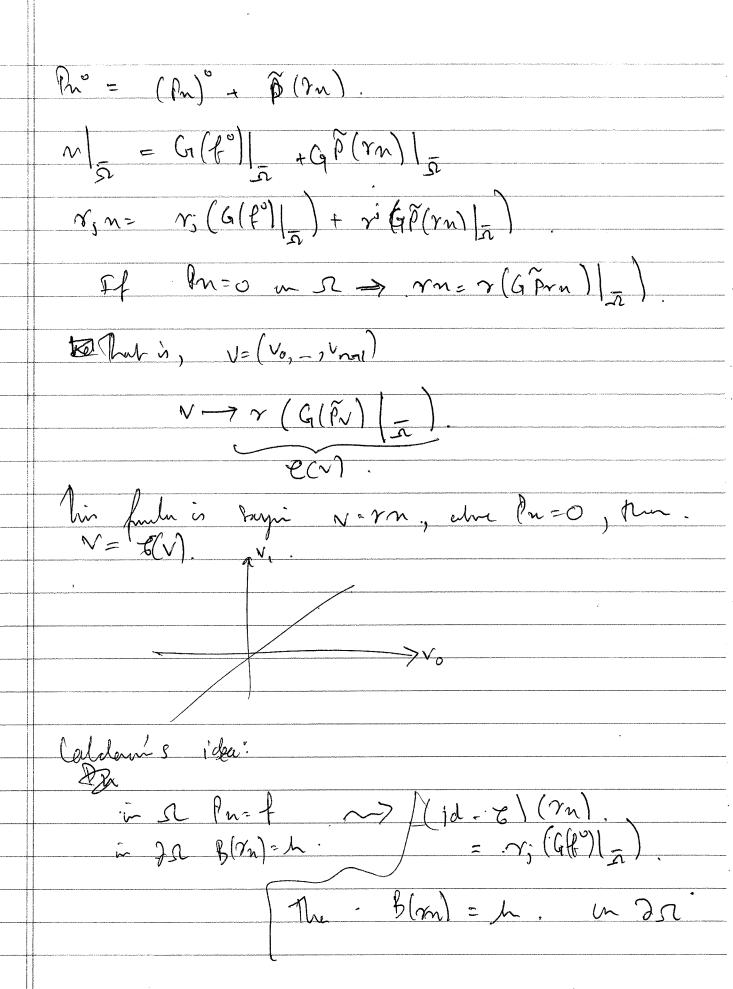
Ex. Pelliptic, and different. Am.
GET-M. S.E. GOP~I, POGNI
Las this property! o(G)~ Zg (M,g). J-n= / (2,5) This is a very sing Anypothesis Int this
is presered welly rouds with provosans
and enough for the genters which
we are interested. me co(2), denote by no= In inst. Pn=f, a pumarix for P. P(n°)= (Pn)° + p(rn).

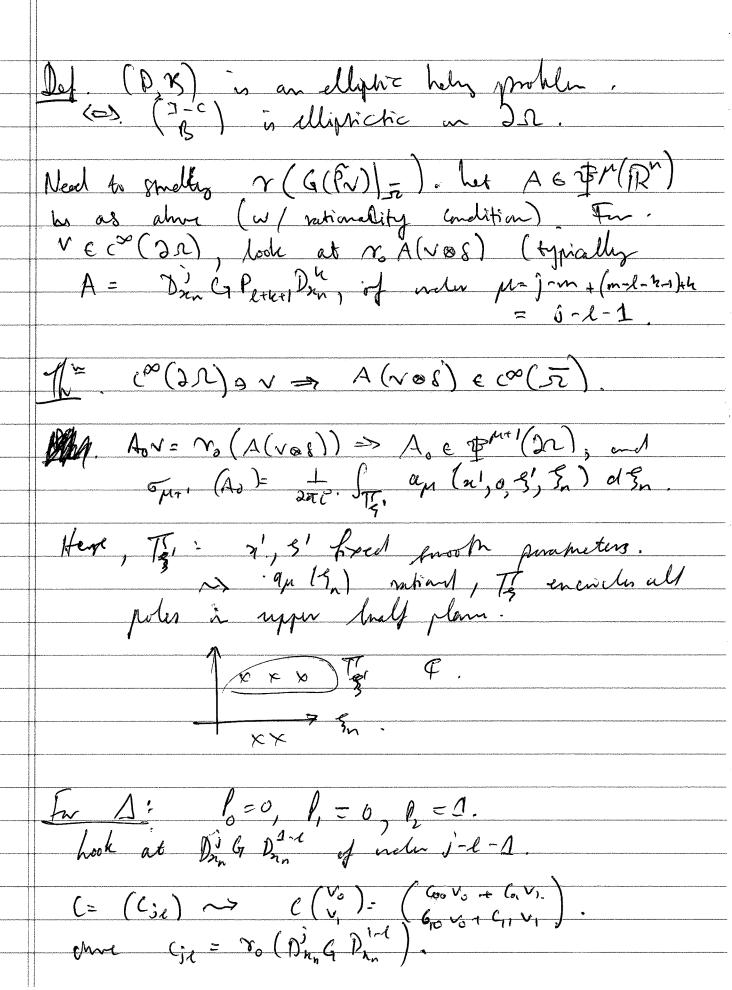
Clarical pump on hours. If P= E 1; (n, Dn; ) & Diggs from. PV= 1 5 Pethon Pethon Ve & Dan S.

n° = n : H(xn). It havy side finishin justini.

Dxn (Hn) = S. n + H (Dxn).

= 11. S(nn). Dry (Hra) = H Dry + 28 Dry 1 -+ 12 Dry S.  $\Delta = D_{x_{i}}^{2} + \Delta_{y_{i}}, \quad h_{i} \quad \Delta = D_{x_{i}}^{2}$   $\Delta = D_{x_{i}}^{2} + \Delta_{y_{i}}, \quad h_{i} \quad \Delta = D_{x_{i}}^{2}$   $\Delta = D_{x_{i}}^{2} + \Delta_{y_{i}}, \quad h_{i} \quad \Delta = D_{x_{i}}^{2}$ Apply G. B. no = Gfor + G (Florn). So, prin is such,
hear p(rn) spred in
hely, G rulen it em,
and Gfo mm. But: The rin makes sense j=0, m-1 ne cm (R+, 91 (2s)). Broblen. ma upld, ne can ush fin. hand wordin in a coordinate club. But how do we lever that has mon guys also are regular ( 'I are her good regularly in onther





Www ,  $\nabla_{-2}(\vec{q}) = \frac{1}{S_n^2 + |\vec{q}|^2} = \frac{1}{2S_n} \cdot \left(\frac{1}{S_n - 215'} + \frac{1}{S_n + 215'}\right)$ Therefore wear metric and large  $S_n = conv$ .

Compute  $\int_{\mathbb{T}} S_n^{3-2+1} \left(S_n^2 + |\vec{q}|^2\right)^{-1} dS_n$ .  $C = \begin{pmatrix} \frac{1}{2} & \frac{1}{2^{2}|5|} \\ \frac{1}{2}|3| & \frac{1}{2} \end{pmatrix}, \quad \text{with }$ Why examples this range's Consider PDE. F-T'd in 21-raniables & (Din + 131/2) n = 0.07 e 15'12n. Fale "-" (orp. decayin), its holy frame of (= holy frame) data.

God on A hut had on Rt. · Now, vor to prome the them. Let  $n(n) = v(n!) \cdot s(x_n)$ .

(under  $\langle An, \Phi \rangle = \int e^{inS} a(n,R) \cdot \tilde{v}(s!) ds! ds$ nn my (3) & 1, get J5/≥1 . (3) F(3) d3 wh F1312 Jeins a(n,3) \$(n) dn. (Nota: emyh to consider homogen a some if a is

St my An vler s An is agnini very Anch, ie. Can't just phone any lover order terms in expansion). Next unte (nong å = pol grani, F =-denging in lutio) (An, ) = Spr-1 (Sq. 2(2', 2n) F(3', 2n) d2n) d3'). an dun Tg, ~ 191/T (check: poles an hom. fuc. in 5) Charse  $\Phi(n) = \Psi(n') + (n_n), \text{ spt } 2 \in (0, \infty).$   $\Rightarrow (An, 9 \otimes 2) = \int_{\mathbb{R}^{n'}} \int_{\mathbb{T}_{5'}}^{n} (3', 9n) \int_{\mathbb{R}^{n'}}^{2^{n}} a \ln 3.$   $\forall 1n) + (n_n) dn' dn dn dn' dn'.$ = J2(nn) · Jon H(2, 9') d3' dan. Whe H(m, 3') = It, J \$1/5') a (m, 3) ein 9 ((n') oh dhen. = Jan 4(n') e 127/ ( [ e 1 m 5 n a (n', 2, 4, 9, 1) d'in) 2/5) d's'dn'. K (2,51)

Note:  $h(n', n_n, A g') = A^{n+1}k(n', 3n n_n, g')$  by

pr-hem of a. Donel. Namely, him

gray.

con remote to  $n_n = 0$ .  $\langle An, \Phi \rangle = \int \langle A_0(n_n) v, \Psi(n') \rangle \psi(n_n) dn$ .