On calculation of one determinant Let $ \alpha_{ik} $ be $n \times n$ matrix. Calculate determinant of $(n \neq 1) \times (n \neq 1)$ metrix.
determinant
Let Ilair be nxn matrix.
Calculate determinent of (nx1)x(n+1) metrix.
lat (a. 21.
det (ain Ui)
W _K O
det $\left(\begin{array}{c} a_{i\kappa} \mid u_i \\ v_{i\kappa} \mid o \end{array}\right) = \lim_{\epsilon \to 0} \det \left(\begin{array}{c} a_{i\kappa} \mid u_i \\ v_{\kappa} \mid \epsilon \end{array}\right) =$
(NK 10) E+0
1 (2:V)
= lim det (aix - UEVK). E =
E-100
= lim olet a det 18 - a mil VIII
E+0 = = = = = = = = = = = = = = = = = = =
L We.
= $\lim_{\xi \to 0} \operatorname{clet} a_{i} \operatorname{clet} \left(3 - \alpha^{\operatorname{cim}} V_{m} V_{k} \right) = \lim_{\xi \to 0} \operatorname{clet} a_{i} \operatorname{clet} a_{i} \operatorname{clet} a_{i} = \lim_{\xi \to 0} \operatorname{clet} a_{i} \operatorname{clet} a_{i} = \lim_{\xi \to 0} \operatorname{clet} a_{i} = \lim_{\xi \to 0}$
1 1 Calculate
like det a [1+ mus +0(E)] & = higher tracer!
270
= (det a) a im Vm ui (air ari = Si)
Geom. meaning: If aix x x x =0 (i=1,,n) quadris in P n-1
1/0 /11.
then det (aim ui) = 0 idefiner pencil of lines
1 vim

tangent to this quadric.