Problem 1 - Linear Algebra

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a) show that the equation $\Omega(S, N) = \frac{\pi}{\epsilon} \Omega(\epsilon, N-1)$ and be written in a form of natix such that D(S,N) is the ste element of a miori work D(N) where SCN = Ax SCN-1)

21 thousass = last who is such that s-element is

Q(S,N), i.e: , therefore we can write; $|\Omega(a, N)| = |\Omega(a, N)| = |\Omega(a)| = |\Omega(a$

2(5,N)= \(\int_{\cellsi=1}\) \(\sim\) =\(\sim\) \(\sim\) $\Omega(5,N) = \mathcal{E} \qquad \Omega(\kappa,N-1) = \mathcal{E} A_{5j} \Omega(j,N-1) = \mathcal{E} A_{5j} \left[\Omega(m-1)\right]_{j=0}^{9}$ $\kappa \in \mathcal{E}_{j}/A_{5}=1$

= [A. DOW-1)] = DO(S,N) is the street of the

matrix A. DCN-1) a.E.D.