H9問1

(₹<sub>2</sub>)

$$Z_{1} = Z_{1} = (S - d_{1}E)Z = \begin{pmatrix} d_{1} - d_{n} \\ \alpha_{2} - \alpha_{n} \end{pmatrix} Z$$

$$d_{n-1} - d_{n}$$

$$d_{1}CC$$

Z9第11-1+1=11年目は、

特に、等いれな分は、のなかで、穿い行は全己の 2 8 Ln = 0

③ i= Kove 战立之饭户

$$Z_k o$$
  $Z_k = \begin{cases} Z_{k,1} \\ \vdots \\ Z_{k,k-k+1} \end{cases} = 0$   $Z_k \circ Z_{k+1} \circ Z_{k+1}$ 

(S-dn-K+1E) ... (S-dnE) Z 2 k =

$$= \frac{\left| d_{1} - d_{n-k} \right|}{d_{n-k-1} - d_{n-k}}$$

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(2)
s=P-AP -> PSP-1=A
                                                                                                                                                 AZ=dZ
            (A-dE) = (PSP-1-d,E):
               Zn= (S- 0,1E) ... (S- dnE) ≥ = 0
                                                                                      Juza Az.
            Z = (S-dIE)Z
P-1/AP
       A = (S-AZ)
2 = (P-IAP-AZ)
                                  (P-1AP-d,P-1P)(P-1AP-d2P-1P) " ($-dnP-1P)z=0
                                            P-(A-dIE)PP-1(A-d)PP-1(A-d)P2 = 0.
                                           P(A-diE) = (A-dnE)Pz-0

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Y (49).
                                                                                                    By = O(\forall y). \Rightarrow B = O
  (3)
                  f(x) = c_0 x^{m} + c_1 x^{m-1} + \dots + c_{m-1} x^{m} + c_m (c_0 \neq 0)
              m>n 1, f(A) x0 not, $(A) = 0 ctax.
                     (A-d,E) ... (A-d,E)=0.
(\overline{f}) (m) y f(A) \neq 0 \Rightarrow \exists g \in P(n-1), f(A) = g(A)
  ($\frac{1}{2} \frac{1}{2} \fra
          f(A)=0 cd3 c, = gep(n), g(A)=f(A)=(A-d,E):-(A-d,E)=0. 01.43.
   & f(A)=0 rd= f(A)=0=(A-d,E)-(A-d,E)+1
                                                         = g(x) = (x-d1)(x- (x-d-); P#d1" N NF
                     f(x) = g(x) \vec{p} + \vec{r}. f(A) = g(A)
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