```
MYCHA MORDINA ERONESIUM DI-MIDUR
   COON INDICA FOR X'E = AX(E) - F(E) : DICHEND YOUND ICH
                            .X(t) = Xh(t) + Xp(t) : 27 mon reg = 1)X.
                                                                                                                    BINDUN UPIGU-VIICNGB
                                                                              \bar{x}_{\rho} = \begin{pmatrix} a \\ b \end{pmatrix} : Then who can -F(t) = \begin{pmatrix} 10 \\ 5 \end{pmatrix}
                                         \bar{x}_p(e) = e^{\lambda t} \begin{pmatrix} a \\ b \end{pmatrix} smBm pro con - F(e) = e^{\lambda t} \begin{pmatrix} a \\ 1 \end{pmatrix}
                   \overline{x}_{p}(t) = \cos t(\frac{9}{6}) + \sin t(\frac{9}{6}) : mBm IDD COD - F(t) = cost(\frac{3}{5})
                                                               अवतः (अने ताम त्य वाता त्याभाग्रांत यर (तादः रामधः
                                  .Xp = text (3) of rimy, nighting your F=ext (3)
                                                                                                                               DISCULTANT VIBRINI
      X_{h}(t) = C_{h}X_{h}(t) + ... + C_{h}X_{h}(t) 3 yound in an . X'(t) = AX(t) + F(t)
       LOUG IN AGUNUR & MINDER (#) .- FIX (#) -= (F) X
                                                \overline{X}_{\rho} = \overline{X}_{c}(t) \begin{pmatrix} V_{1}(t) \\ \vdots \\ V_{k}(t) \end{pmatrix} = X_{c}(t) \cdot \overline{V}(t)
                                                                                                                                                                               ः त्या । । । । ।
Xp = Xc(t) · V(t) + Xc(t)· V'(t) = A Xc(t)· V(t) + F(t)

. X'(t) ~ Total national span
                                                                                                                                                                                  DEIL (19, MICEN) :
                                                                                                                                                          : Xct) = AX(0+FH 12, BN3)
  X_{c}(t) \cdot V'(t) = \overline{F}(t) \Rightarrow V'(t) = X_{c}(t)^{-1} \overline{F}(t)
                                                                                                                                                                                     KNGB
                                                             (185 11000 1034) NO , A=(-28-50) -1 F(t)=(-et)
 \det (A-\lambda I)=0 \Rightarrow \begin{vmatrix} -28-\lambda & -50 \\ 15 & 27-\lambda \end{vmatrix} = \lambda^2 + \lambda - 6 = 0 \Rightarrow \lambda = 2, \lambda_2 = -3

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      -30 & -50 \\
      15 & 25
    \end{pmatrix}
    \begin{pmatrix}
      a \\
      b
    \end{bmatrix}
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