```
Aere 421 Hw 4.
                                  m_1 = .684 \begin{bmatrix} 2 \\ 1 \\ 2 \end{bmatrix}
t_1 = 105 + 106 \begin{bmatrix} 1 \\ -1 \\ 1 \end{bmatrix}
                              m_1 = .21375 \begin{bmatrix} 2 & 1 \\ 1 & 2 \end{bmatrix} t_2 = T_8 . \frac{3}{2} \times 10 \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix}

\frac{1}{6} \frac{1368}{689} \frac{1369}{1795} \frac{1}{21375} \frac{1}{4} \frac{1}{105} \frac{1}{105

\frac{1}{6} \begin{bmatrix} 1.7975(-4^{2} - u_{1}) & .21375(-4^{2} - u_{3}) \\ 0 & .21375(-4^{2} - u_{2}) \end{bmatrix} (cos(4+)) + \begin{bmatrix} 163.5_{\times 10}^{2} (u_{2}) & -58.5_{\times 10}^{2} (u_{3}) \\ -58.5_{\times 10}^{2} (u_{3}) \end{bmatrix} (cos(4+)) - \begin{bmatrix} 0 \\ 0 \end{bmatrix}

\frac{1}{6} \begin{bmatrix} 1.7975(-4^{2} - u_{2}) & .4275(-4^{2} - u_{3}) \\ .21375(-4^{2} - u_{2}) & .4275(-4^{2} - u_{3}) \end{bmatrix} (cos(4+)) + \begin{bmatrix} 163.5_{\times 10}^{2} (u_{3}) & .58.5_{\times 10}^{2} (u_{3}) \\ -78.5_{\times 10}^{2} (u_{3}) & .58.5_{\times 10}^{2} (u_{3}) \end{bmatrix} (cos(4+)) - \begin{bmatrix} 0 \\ 0 \end{bmatrix}

\left(\begin{array}{c|c}
 & 1.7955(-4^{2}) & .21375(-4^{2}) \\
 & -6 & .21375(-4^{2}) & .4275(-4^{2})
\end{array}\right)

\frac{1}{-1.7975(-4^{2})} \cdot \frac{21375(-4^{2})}{-163.5\times10^{6}} + \frac{1}{-163.5\times10^{6}} - \frac{1}{-163.5\times10^{6}} + \frac{1}{
                                                                                                                                                                                                                                                                                                                                                                                                           Sulved or computer
                                                                                                                                               W= 14570, 38030 rad
                                                                                                                / wh = 2312. T, 6072.6 H2
                                                                 -6. T82 × 10 4,326 × 10 7 [42]

-6. T82 × 10 4,326 × 10 7 [43]

System of equs or calculator
                                                                                                                                               92=,657 93
                                                                          4 = 6052,5
                                                           -2.696×108 -1.098×108 -4.477×107 [42]
-4.477×107 -4.477×107 [43]

54,477×107 -4.477×107
                                                                                                        |4_{2} = .467 \overline{u_{3}}
                                                      f=500000 sis (wt)
                                               J = m_1 n_1^2 + m_2 n_2^2 \qquad n = .2 \quad n_2 = .77 \qquad m_1 = 6 \times 17^{-4}, \quad 4 \cdot 285 v = .684 \quad m_2 = 250 \times 10^{-6}, \quad 3 \cdot 285 v = .21375
                                             I = .092019 + .5 m^2 = MR^2
                                               R = \sqrt{\frac{1}{m_1 + m_2}} = .32016 \text{ Kg m}^2
                                       T=MR2 = . U92 15 m2
                                             h x+tr (x-L, +)+tr2(x+L2 +)=0
                                           ) 6-17,4(x-L, 6)+17,17,(++226)=0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                x= x 205( w +)
                                \int_{e} t = \frac{8978 \cdot 1.63 \times 10^{8} c^{2}}{-7.45 \times 10^{7}} = 0
                                                                                                                                                                                                                                                                                                                                                                                                                                ,08324,347.9ax1042+796211=0
                                                                                                                                                                                                                                                                                                                                                                                                                                 U, = 10990 md/s 42 = 17350 md/s

\begin{vmatrix}
.8978 \cdot 1.60 \times 10^{2} & -7.45 \times 10^{7} \\
-7.45 \times 10^{7}
\end{vmatrix}

\begin{vmatrix}
.8978 \cdot 1.60 \times 10^{2} & -7.45 \times 10^{7} \\
092 \cdot 7.2 \times 10^{7}
\end{vmatrix}

                                                                                                                                                                                                                                                                                                                                                                                         5.487×107 x -2.45 ×107 4 =0
                                                                                                                                                                                                                                                                                                                                                                -2,45×107=+1,095×1076=0
                                                                                                                                                                                                                                                                                                                                                                                                                                     = .4476
                                                                                                                                                                                                                                                             w- W1

\begin{vmatrix}
.8978 \cdot 1.60 \times 10^{8} & 2 & -7.45 \times 10^{7} \\
-7.45 \times 10^{7} & 0 & 0
\end{vmatrix}

\begin{vmatrix}
-7.45 \times 10^{7} & 0 & 0 \\
0 & 0 & 0
\end{vmatrix}

\begin{vmatrix}
-7.45 \times 10^{7} & 0 & 0 \\
0 & 0 & 0
\end{vmatrix}

                                                                                                                                                                                                                                                                                                                                        ~1,07 x 10 7 = -2 45 x 10 8 = 0
                                                                                                                                                                                                                                                                                                                                 -2.45x107 = -5,67x106 = 0
                                                                                                                                                                                                                                                                                                                                                                                                                              7 = -, 229 F
                                       φ = | .447 -, 229
                                    [m] = [-947] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [-279] [
                 \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 \end{bmatrix} = \begin{bmatrix} 1.63 \times 10^8 & -2.45 \times 10^7 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 & -2.45 \times 10^7 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^7 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63 \times 10^8 \\ -2.45 \times 10^7 \end{bmatrix} \begin{bmatrix} 1.63
                                                                                         U_{1} = \sqrt{\frac{3.776 \times 10^{7}}{.371}} = 10990 \text{ mal}
V_{2} = \sqrt{\frac{4.184 + 11^{7}}{.139}} = 17350 \text{ rad}

\begin{aligned}
f &= \int_{-947}^{947} \frac{1}{1} \left[ \int_{-976}^{0} \frac{1}{1} \int_{-976}^{0} \frac{

\left[ \frac{1}{4} \binom{0}{0} \right] = \left[ \frac{1}{4} \binom{0}{0} \binom{0}{0} \right] = \left[ \frac{1}{4} \binom{0}{0} \binom{0}{0} \binom{0}{0} \right] = \left[ \frac{1}{4} \binom{0}{0} \binom{0}{0} \binom{0}{0} \binom{0}{0} \binom{0}{0} \binom{0}{0} \binom{0}{0} \binom{0}{0} \binom{0}{0} \right] = \left[ \frac{1}{4} \binom{0}{0} \binom{0}{0}\binom{0}{0} \binom{0}{0} \binom{0}{0}\binom{0}{0}\binom{0}{0}\binom{0}{0}\binom{0}{0}\binom{0}{0}\binom{0}{0}
                                                                       q(t) = \left(\frac{1}{10990^{2}}\right)\left(\frac{514(vt)}{1-\left(\frac{v}{10990}\right)}\right) = \frac{514(vt)}{1-\left(\frac{v}{10990}\right)}
                                                                         9(1) = \frac{3.597 \times 10^{6}}{17350} \left( \frac{515(\omega t)}{1 - (\frac{\omega}{17350})} \right) = 0.0119 \left( \frac{515(\omega t)}{1 - (\frac{\omega}{\omega})} \right)
                                                               \begin{bmatrix} \times \\ \theta \end{bmatrix} = \begin{bmatrix} .447 & -.129 \\ 1 & 1 \end{bmatrix} \begin{bmatrix} 9_1 \\ 9_2 \end{bmatrix} \begin{bmatrix} 9_1 \\ 9_2 \end{bmatrix}

\frac{1}{1-\left(\frac{\omega}{10490}\right)^{2}} + \frac{-00403}{1-\left(\frac{\omega}{17350}\right)^{2}} + \frac{5ik(\omega t)}{1-\left(\frac{\omega}{17350}\right)^{2}} + \frac{5ik(\omega t)}{1-\left(\frac
```