(C. I. q.) Let
$$18 = a + 3 + b + 7 + c + d \in V$$
 $a + 3 + b + 2 + c + d = \alpha_1(13) + \alpha_2(12 + t) + \alpha_3(12 + t)$
 $= (\alpha_1 + \alpha_3) + 3 + \alpha_3 + 7 + (\alpha_1 + \alpha_2) + 4 + \alpha_3$
 $= (\alpha_1 + \alpha_3) + 3 + \alpha_3 + 7 + (\alpha_1 + \alpha_2) + 4 + \alpha_3$
 $= (\alpha_1 + \alpha_3) + 3 + \alpha_3 + 7 + (\alpha_1 + \alpha_2) + 4 + \alpha_3$
 $= (\alpha_1 + \alpha_3) + 3 + \alpha_3 + 7 + (\alpha_1 + \alpha_2) + 4 + \alpha_3$
 $= (\alpha_1 + \alpha_3) + 3 + \alpha_3 + 7 + (\alpha_1 + \alpha_2) + 4 + \alpha_3$
 $= (\alpha_1 + \alpha_3) + 3 + \alpha_3 + 3 + \alpha_4$
 $= (\alpha_1 + \alpha_3) + \alpha_4 + \alpha_4$
 $= (\alpha_1 + \alpha_3) + \alpha_4 + \alpha_4$
 $= (\alpha_1 + \alpha_2) + \alpha_4$
 $= (\alpha_1 + \alpha_2)$

$$\begin{array}{ll}
(0) & \Gamma(x_1 y)^T = \lambda_1 T(x_1) + \lambda_2 T(x_2) \\
& = \chi(-2_1 2, -7)^T + \lambda_2(-2_1 - 4, -10)^T \\
& = (-2\lambda_1 - 2\lambda_2, 2\lambda_1 - 4\lambda_2, -7\lambda_1 - 10\lambda_2) \\
& T(x_1 y) = (-x_1 + y_1, -4x_1 + 2y_2, \sqrt{2}x_1 + 3y_2)
\end{array}$$

$$\stackrel{\text{C}}{\Longrightarrow} \qquad \begin{bmatrix} -1 & 1 \\ -4 & 2 \\ 0 & -3 \end{bmatrix}$$

$$\begin{array}{lll}
\alpha. \, \mathbf{20}) & w_1 = u_1 = (1,3,1,1) \\
w_2 = \left(\frac{5}{6}, \frac{3}{6}, -\frac{7}{6}, -\frac{3}{6}\right) & \omega_2 = (5,3,-7,-7) \\
w_3 = \left(\frac{10}{11}, -\frac{5}{11}, \frac{19}{11}, -\frac{14}{11}\right) & \omega_3 = (10,-5,19,-14) \\
w_4 = \left(\frac{42}{31}, -\frac{21}{31}, -\frac{7}{31}, \frac{28}{31}\right) & \omega_4 = (42,-21,-7,28) \\
\swarrow w_{1}, w_{2}, w_{3}, w_{4} & \text{is obthogonal basis.}
\end{array}$$

and $\sqrt{\frac{\omega_1}{\|\mathbf{w}_1\|}}, \frac{\omega_2}{\|\mathbf{w}_2\|}, \frac{\omega_3}{\|\mathbf{w}_3\|}, \frac{\omega_4}{\|\mathbf{w}_4\|}$ is attenuated basis.

Nac,
$$K = (p, q, a) = R_1(1, 1, a) + R_2(1, 2, 3) p R_3(1, 3, 5)$$

$$\begin{cases}
1 & 1 & 1 & p \\
1 & 2 & 3 & q \\
0 & 3 & 5 & 4
\end{cases} \qquad \begin{cases}
1 & 1 & 1 & p \\
0 & 1 & 2 & q - p \\
0 & 0 & 1 & -2k + 3q - 3p
\end{cases}$$

$$R_2 = 7 + P - 2 R_2 = 5P - 5Q + 2k$$

$$R_1 = -P + 2q - 2k$$

$$R_2 = 7 + P - 2 R_2 = 5P - 5Q + 2k$$

$$R_3 = \frac{R_1}{4} =$$

$$\begin{array}{c} 0.39 \\ \lambda_{20} \\ \lambda_{20}$$

.. New process has increase the mean life of the equipment.

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