ursday, November 11, 2021 2:11 PM

$$A \underbrace{\Sigma k + \Sigma + 1} : \quad x + y + z = 0$$

$$x + \lambda y + \lambda z = -3$$

$$2x + y + \mu z = \lambda + 1$$

$$3 \times 3$$

$$+ -$$

$$1 \quad 1 \quad 1$$

$$1 \quad 1$$

$$D = \begin{bmatrix} 1 & 1 & 1 \\ 1 & \lambda & \lambda \\ 2 & 1 & \mu \end{bmatrix} = \begin{bmatrix} 1 & 1 & 1 \\ 0 & \lambda - 1 & \lambda - 1 \\ 0 & -1 & \mu - 2 \end{bmatrix} = (\lambda - 1)(\mu - 2) + (\lambda - 1) = (\lambda - 1)(\mu - 1)$$

$$D_{\gamma} = \begin{vmatrix} 1 & 0 & 1 \\ 1 & -3 & \lambda \\ 2 & \lambda + 1 & \mu \end{vmatrix} = \begin{vmatrix} 1 & 0 & 0 \\ 1 & -3 & \lambda - 1 \\ 2 & \lambda + 1 & \mu - 2 \end{vmatrix} = \begin{vmatrix} -3 & \lambda - 1 \\ \lambda + 1 & \mu - 2 \end{vmatrix} = -3(\mu - 2) - (\lambda - 1)(\lambda + 1)$$

$$D_{z} = \begin{vmatrix} 1 & 1 & 0 \\ 1 & \lambda & -3 \\ 2 & 1 & \lambda + 1 \end{vmatrix} = \begin{vmatrix} 1 & 0 & 0 \\ 1 & \lambda - 1 & -3 \\ 2 & 1 & \lambda + 1 \end{vmatrix} = \begin{vmatrix} 1 & 0 & 0 \\ 1 & \lambda - 1 & -3 \\ 2 & -1 & \lambda + 1 \end{vmatrix} = \begin{vmatrix} \lambda - 1 & -3 \\ -1 & \lambda + 1 \end{vmatrix} = (\lambda - 1)(\lambda + 1) - 3$$

• 
$$D \neq 0 \Leftrightarrow \lambda \neq 1$$
 kay  $f \neq L$  1014 for July.  $\qquad \qquad \times = \frac{Dx}{D}$ ,  $y = \frac{Dy}{D}$ ,  $z = \frac{Dz}{D}$ 

$$\int_{-\infty}^{\infty} A_{p} \cdot A_{p} \cdot$$

$$2^{\frac{1}{2}} \wedge \psi. \quad \psi = 1 \quad 1^{\frac{1}{2}} + 1 \quad D_{x} = 0$$

$$D_{y} = 3 - (\lambda^{-1})(\lambda + 1) = 3 - (\lambda^{2} - 1) = 3 - \lambda^{2} + 1 = -\lambda^{2} + 4 = -(\lambda^{2} - 4)$$

$$= -(\lambda^{2} - 4)$$

$$= -(\lambda^{-2})(\lambda + 1)$$

$$D_{z} = (\lambda^{-1})(\lambda + 1) - 3 = \lambda^{2} - 4 = (\lambda^{-2})(\lambda + 2)$$

$$\begin{array}{c} (x + y) = 2 & (3) + (3)$$