

$$Sin(\theta-120^{\circ}) = -Sin(\theta+60^{\circ})$$

$$= -\frac{1}{2}Sin\theta - \frac{13}{2}cos\theta$$

$$Cos(0-120^{\circ}) = -cos(0+60^{\circ})$$

= $-\frac{1}{2}cos0+\frac{\sqrt{3}}{2}sin0$

$$Sin(\theta + 210^{\circ}) = -Sin(\theta + 30^{\circ}) = -\frac{15}{2}sin\theta - \frac{1}{2}cos\theta$$

 $cos(\theta + 210^{\circ}) = -cos(\theta + 30^{\circ}) = -\frac{15}{2}cos\theta + \frac{1}{2}sin\theta$

$$\begin{bmatrix} \cos \theta \\ \sin \theta \end{bmatrix} \begin{bmatrix} -\frac{\sqrt{3}}{2} \\ -\frac{1}{2} \\ -\frac{2}{2} \end{bmatrix}$$

$$Sin(\theta-2|0^{\circ}) = -Sin(\theta-30^{\circ}) = -\frac{\sqrt{3}}{2}sin\theta + \frac{1}{2}cos\theta$$

$$Cos(\theta-2|0^{\circ}) = -cos(\theta-30^{\circ}) = -\frac{\sqrt{3}}{2}cos\theta - \frac{1}{2}sin\theta$$

$$\left[-\frac{\sqrt{3}}{2} - \frac{1}{2}\right]$$

$$L = -\frac{\sqrt{3}}{3}$$

$$a_{11} + a_{12} = 3\sqrt{2} - a_{11} + a_{12} = -2\sqrt{2}$$

$$a_{11}\frac{\sqrt{12}}{2} + a_{12}\frac{\sqrt{12}}{2} = 3$$
 $-\frac{\sqrt{12}}{2}a_{11} + \frac{\sqrt{12}}{2}a_{12} = 2$

$$a_{12} = \frac{\sqrt{2}}{2} \qquad a_{11} = \frac{\sqrt{2}}{2}$$

$$Q_{22} = \frac{5\sqrt{2}}{2} \qquad Q_{24} = \frac{\sqrt{2}}{2}$$

$$\begin{bmatrix}
\frac{\sqrt{2}}{2} & \frac{\sqrt{2}}{2} \\
\frac{\sqrt{2}}{2} & \frac{\sqrt{2}}{2}
\end{bmatrix} \qquad (\frac{\frac{1}{2}}{2\sqrt{2}} - \lambda)^2 = \frac{1}{2}$$

$$\frac{\sqrt{2}}{2} & \frac{\sqrt{2}}{2}
\end{bmatrix} \qquad (\frac{\frac{1}{2}}{2\sqrt{2}} - \lambda)^2 = \frac{1}{2}$$

$$\frac{\sqrt{2}}{2} & \frac{\sqrt{2}}{2}$$

$$\frac{\sqrt{2}}{2\sqrt{2}} - \lambda = \frac{\sqrt{2}}{2\sqrt{2}}$$

$$\frac{2^{2}+0.2^{7}+0.2^{9}+1.2^{-7}+1.2^{-2}}{4}$$

$$X = \begin{bmatrix} \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2} \\ \frac{1}{2} & \frac{1}{2}$$