$$\frac{\sqrt{\pi} = \sqrt{2} \sqrt{2} \sqrt{2}}{2 + \sqrt{2} \sqrt{2} \sqrt{2} \sqrt{2}}$$

1)
$$\frac{\int_{Jx_{i}} \left(L - \sum_{j=1}^{n} \lambda_{j} g_{j}\right) = 0}{2 \int_{Jx_{i}} \left(L - \sum_{j=1}^{n} \lambda_{j} g_{j}\right) = 0}$$

$$9 = \frac{1}{2} W_{K} W_{K} - E_{K} = 0$$

$$\frac{1}{\partial y_1} \left(L - \lambda_1 g_1 - \lambda_2 g_2 \right) = 0$$

$$\frac{1}{2} \lambda_{1} \frac{1}{2} \frac{1}{4} + \frac{1}{2} \frac{1}{2} \frac{1}{2} \frac{1}{1} = 1$$

$$\frac{1}{2} \frac{1}{2} \frac{1}{4} + \frac{1}{2} \frac{1}{2} \frac{1}{1} = 2$$

$$\frac{1}{2} \frac{1}{2} \frac{1}{4} = 2$$

$$\frac{\lambda_1 B + \lambda_2 A = 2 E_K}{\lambda_1 A + \lambda_2 C = 2}$$

$$\lambda_{1} = 2 \cdot \frac{CE_{R} - A}{BC - A^{2}} \qquad \lambda_{2} = 2 \cdot \frac{B - AE_{R}}{BC - A^{2}}$$

$$W = \frac{1}{2} \left(\lambda_{1} M \beta^{-1} \right) + \frac{1}{2} \left(\lambda_{2} 1 \beta^{-1} \right)$$

The result is the same as the one in class