

$$(c)(ii) \quad A_{0}=1 \quad A_{i}=2 \quad A=Z[y_{0}+y_{i}]-xy_{i}$$

$$a_{0}=\int_{0}^{1} \int y_{i} \omega dx=2 \quad a_{0}^{2} \int y_{i} \omega dx=2-x$$

$$using \text{ rescut of } (cX_{0}):$$

$$Y=\frac{a_{0}}{1-x} y_{0}+\frac{a_{1}}{2-x} y_{1}$$

$$\int_{0}^{1} \omega(x)Y(x)^{2} dx=2 \quad \text{definition for } (a_{0})^{2} y_{0}^{2}=2$$

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