$$P_{0} = 1$$

$$P_{1} = 1 - \frac{\langle x, 1 \rangle}{\langle 1, 1 \rangle} \cdot 1 = 1 - 0 - 1 = x$$

$$P_{2} = x^{2} - \frac{\langle x^{2}, 1 \rangle}{\langle 1, 1 \rangle} \cdot 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1, x \rangle} \cdot x = 1 - \frac{\langle x^{2}, 1 \rangle}{\langle 1,$$

$$Q_{0}^{\dagger}$$

$$W_{2}^{\dagger}(x) = \sum_{l=0}^{2} a_{ll} \cdot P_{lk}(x)$$

$$a_{ll} = \frac{\langle w_{l}, P_{lk} \rangle}{\langle P_{lk}, P_{lk} \rangle}$$

$$a_{0} = \frac{\langle w_{l}, P_{0} \rangle}{\langle P_{0}, P_{0} \rangle} = 0$$

$$=\frac{97+7,9}{30}=\frac{97+7,9}{30}=\frac{44,9}{30}=\frac{37}{25}$$

$$W_{2}^{*}(4) = 6 \cdot 1 + \frac{37}{25} \cdot \times + 0 \cdot \left(\frac{2}{1} - \frac{15}{2} \right) = \frac{37}{25} \times \frac{37}{25}$$