

3.9.1
12

$$T_{k+1} = \binom{4}{k} x^{\frac{1}{2}(4-k)} x^{2k} \quad * (\sqrt{x}-x^2)^4 \quad \text{|| } \sqrt{x} \text{ } x^3 \text{ } \text{||}$$

$$3 = 2 - \frac{1}{2}k + 2k \rightarrow k = \frac{1}{2} \quad \text{|| } \frac{1}{2} \text{ } \text{||}$$

$$T_{l+1} = \binom{12}{l} x^{-\frac{1}{5}(12-l)} (-1)^l \quad \left(\frac{1}{\sqrt[5]{x}} - 1\right)^{12} \quad \text{|| } \sqrt[5]{x} \text{ } x^6 \text{ } \text{||}$$

$$1 = -\frac{1}{5}(12-l) \rightarrow l = 17 \quad l > 12$$

$$T_{m+1} = \binom{13}{m} (x^{-1})^{13-m} (-1)^m \quad \left(\frac{1}{x} - 1\right)^{13} \quad \text{|| } \sqrt{x} \text{ } x^0 \text{ } \text{||}$$

$$0 = -13 + m \rightarrow m = 13$$

$$T_{14} = -\binom{13}{13} = -1$$