

2.1

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$$\begin{array}{c|c} x_k & y_k \\ \hline -3 & -16 \end{array}$$

$$\begin{array}{c|c} -1 & 0 \end{array} \quad \cdot 8$$

$$\begin{array}{c|cc} 0 & -16 & 16 & -8 \end{array}$$

$$\begin{array}{c|ccc} 1 & 32 & 48 & 32 & 10 \end{array}$$

d)

$$L_n(x) = -16 - 8(x+1) - 8x(x+1) + 10x(x+1)(x-1)$$

g)

$$\begin{array}{c|c} x_k & y_k \\ \hline -3 & -16 \end{array}$$

$$\begin{array}{c|c} -1 & 0 \end{array} \quad \cdot 8$$

$$\begin{array}{c|cc} 0 & -16 & 16 & -8 \end{array}$$

$$\begin{array}{c|ccc} 1 & 32 & 48 & 32 & 10 \end{array}$$

$$\begin{array}{c|cccc} 3 & 560 & 264 & 72 & 10 & 0 \end{array}$$

$$L_n(x) = -16 - 8(x+1) - 8x(x+1) + 10x(x+1)(x-1)$$

c)

~~$$\begin{array}{c|c} x_k & y_k \\ \hline -3 & -16 \end{array}$$~~

$$\begin{array}{c|c} x_k & y_k \\ \hline -3 & -16 \end{array}$$

$$\begin{array}{c|c} -1 & 0 \end{array} \quad \cdot 8$$

$$\begin{array}{c|cc} 0 & -16 & 16 & -8 \end{array}$$

$$\begin{array}{c|ccc} 1 & -8 & 8 & 4 & 3 \end{array}$$

$$L_n(x) = -16 - 8(x+1) - 8x(x+1) + 3x(x+1)(x-1)$$