

Name: Ö. Malik Kalemboji

IO : 150180112

M. Kalemboji

Q1A: 211081051

Q1B: (2,1), (1,0), (8,1), (0,5)

i	x_i	$f(x_i)$
0	0	0
1	2	1
2	1	0
3	8	1
4	0	5

$$f(x) = \frac{-11}{28} (x-8)(x-2)(x-1) - \frac{1}{7} (x-2)(x-1) + x - 1$$

$$f(x) = \frac{-11x^3}{28} + \frac{117x^2}{28} - \frac{123x}{14} + 5$$

Q1C :

$$\begin{aligned} & \frac{-11 \cdot 10^3}{28} + \frac{117 \cdot 10^2}{28} - \frac{123 \cdot 10}{14} + 5 \\ &= -392,857 + 417,857 - 87,857 + 5 \\ &= -57,857 \end{aligned}$$

BLG 202E - FINAL

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$$Q_{2A}: 211081051 \rightarrow 21108 \times 1051$$

$$\frac{21108 \times 1051}{8} = 22.184.508 \text{ bytes}$$

$$Q_{2B}: A_r = \sum_{i=1}^r \sigma_i u_i v_i^T$$