

CS 70 Midterm 1 Review

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Proof by Awesomeness

Given points $(1, 0)$, $(2, 1)$, $(3, 0)$ over $GF(7)$, find the polynomial of degree 2 using Lagrange Interpolation.

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$$\Delta_1(x) = \textit{Don't care!}$$

$$\Delta_2(x) = \frac{(x-1)(x-3)}{(2-1)(2-3)} = -x^2 + 4x - 3$$

$$\Delta_3(x) = \textit{Don't care!}$$

$$p(x) = 0 \cdot \delta_1 + 1 \cdot \delta_2 + 0 \cdot \delta_3 = -x^2 + 4x - 3 = 6x^2 + 4x + 4$$

Graphs

Winning the Lottery

En Taro Tassarar

En Taro Tassadar

That's it!