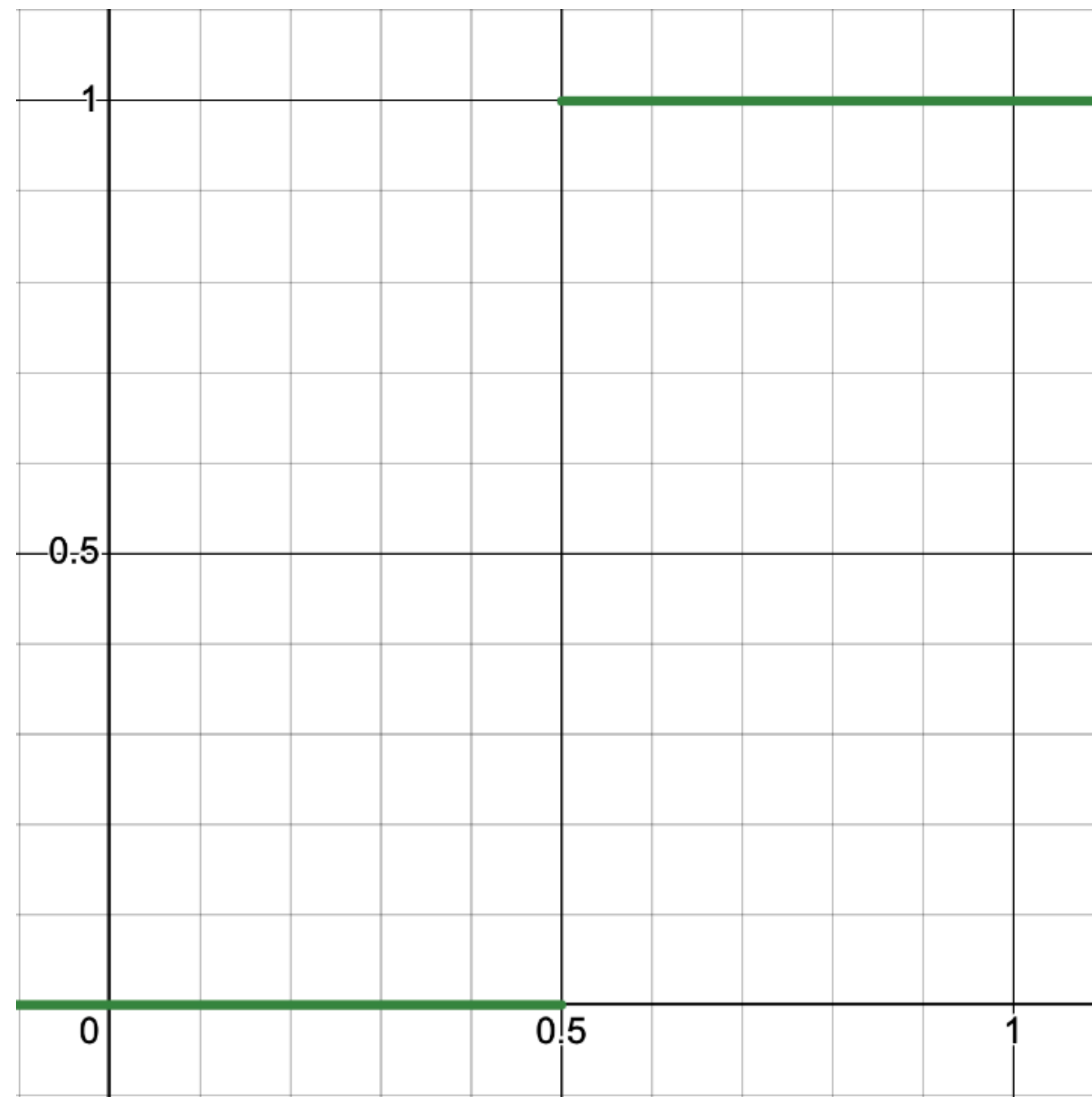


# Cleaning error in CKKS

BLEACH: Via polynomial approximation [DMPS24]

$$b \in \{0,1\} \iff b + \epsilon \in \mathbb{R}$$

For small  $\epsilon$



Perfect cleanup function

# Cleaning error in CKKS

BLEACH: Via polynomial approximation [DMPS24]

$$h_1(x) = 3x^2 - 2x^3$$

$$x \in [0,1]$$

