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(2) Para $N = 32$

a) $M = \log_2(32) = 5$ etapas

b) $2^5 = 32$

Se requieren 5 bits

c) $X_3(0) = X_2(0) + W_{32}^0 \cdot X_2(4)$

$X_3(1) = X_2(1) + W_{32}^1 X_2(5)$

$X_3(2) = X_2(2) + W_{32}^2 X_2(6)$

$X_3(3) = X_2(3) + W_{32}^3 X_2(7)$

(3)

a) 16 kHz

b) $\dfrac{1}{f_s} = \dfrac{1}{16,000} = 0.0000625 \approx 62.5 \,\mu s$

c) $N = 512$