

Plot zero values also

$$-4$$
 -3 -2 -1 0 1 2 3 4 5

Suppose that the frequency response of a different FIR filter is
$$\mathcal{H}(\hat{\alpha}) = 2 i \sin(\hat{\alpha}) e^{-j} 2\hat{\omega}$$

If the input signal is $x[n] = 3 + 2\cos(\frac{1}{2}\pi n - \pi)$ for $-\infty < n < \infty$, determine a simple mathematical expression for the output signal y[n].

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