
EXERCISE 6.7: Use the `dltidemo` GUI in MATLAB to find a case where the input sinusoid is *nulled out* by the 4-point running-average filter. In other words, determine a frequency $\hat{\omega}_1$ for the input $x[n] = \cos(\hat{\omega}_1 n)$ such that the output signal is $y[n] = 0$.

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