

ECE 310: Quiz #7 (3pm Section E) Fall 2018

UIN: _____

Name: _____

1. (6 pts) Let $x[n] = \{1, 0, 0, 1\}$,

- (a) Compute the DFT $X[k]$ of $x[n]$.
- (b) Sketch the magnitude of $X[k]$.

2. (4 pts) Let $X[k]$ be the DFT of $x[n] = \{0, 3, 2, 1\}$. Determine the sequence $y[n]$ whose DFT is given by $Y[k] = 2(-1)^k X[k]$.