

Problem Set #5

Due: Thursday, November 8, 2007

1. Problem 3.15 of the textbook
2. Let $X(e^{j\omega})$ denote the Z-transform of a real signal $x[n]$ evaluated at $e^{j\omega}$ (which is its DTFT). Express $y[n]$ in terms of $x[n]$, if $Y(e^{j\omega}) = X(e^{j5\omega})$.
3. Problem 3.20 of the textbook
4. Problem 3.17 (b), (d), and (f) of the textbook