

ECE-486 Spring 2008, March 28 Quiz

Name : _____

Let $h(n)$ and $x(n)$ be

$$x(n) = \begin{cases} n, & n = 0, 1, 2, \dots, 7 \\ 0 & \text{Elsewhere.} \end{cases} \quad h(n) = \delta(n - 3),$$

and define $X(k)$ and $H(k)$ as the 8-point DFTs of $x(n)$ and $h(n)$. Find and plot the inverse-DFT of the product $X(k)H(k)$.

