

Solutions for In-Class Quiz #1

ECE 565, Spring 2008

(12 Feb 2008, solutions posted on 14 Feb 2008)

Problem 1:

(a) $y[n] = x[n - 1] + 2x[n]$.

(b) $h[n] = 2\delta[n] + \delta[n - 1]$.

(c) Y.

(d) Y.

(e) Y.

(f) Y.

Problem 2:

$c[k] = y[k]$ or $c[k] = 5x[k] + x[k - 5]$.

Problem 3:

(a) 1.

(b) 3.

(c) $1/\sqrt{2}$.

(d) $-\pi/4$.