Quiz 2

September 13, 2006

1. Sketch the signal y(t) = x(t) * h(t) for

$$x(t) = u(t) - u(t - T_1), \quad T_1 > 0$$

 $h(t) = u(t - T_2), \quad T_2 > 0.$

Make sure you carefully label your graph.

2. Consider the signals

$$x[n] = u[n] + u[-n-1] \text{ and}$$

$$h[n] = \delta[n] - \delta[n-1].$$

- (a) Sketch x[n] and h[n].
- (b) Determine y[n] = x[n] * h[n].
- (c) Sketch y[n] = u[n] * h[n].