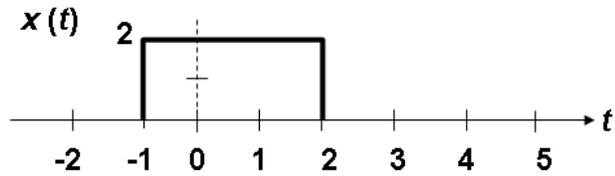


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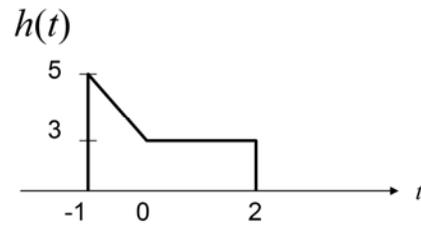
### EE322 Fall 2008 Lab 06: Convolution Worksheet

1. Evaluate the convolution  $y(t)=x(t)*u(t)$ , given the plot of  $x(t)$  shown to the right. Choose from the answers (a)-(d) below, and state why.



- (a)
- (b)
- (c)
- (d)

2. Find convolution  $y(t)=x(t)*h(t)$ , given  $x(t) = 2\delta(t+5) - \delta(t) + 2\delta(t-5)$ , and given the plot of  $h(t)$  shown to the right.



3. A system has an input  $x(t)$ , an exponential pulse, as shown to the right. The system's impulse response  $h(t)$  as also shown to the right. What is the system output  $y(t)$ ?

