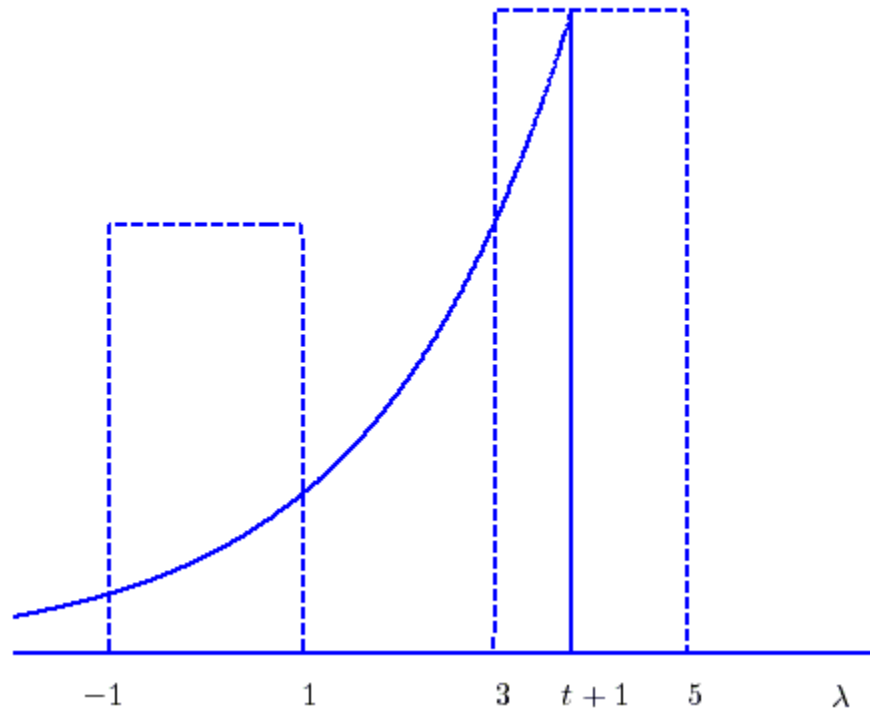


For problems **5-10**, assume we are convolving two functions, and at some point we have the configuration shown below:



The output at this time can be written as the sum of two integrals,

$$y(t) = \int_a^b x(\lambda)h(t-\lambda)d\lambda + \int_c^d x(\lambda)h(t-\lambda)d\lambda$$

- 5)** The value of the parameter a is a) -1 b) 1 c) 3 d) 5 e) t f) $t+1$
- 6)** The value of the parameter b is a) -1 b) 1 c) 3 d) 5 e) t f) $t+1$
- 7)** The value of the parameter c is a) -1 b) 1 c) 3 d) 5 e) t f) $t+1$
- 8)** The value of the parameter d is a) -1 b) 1 c) 3 d) 5 e) t f) $t+1$
- 9)** This sketch is valid for
a) $-1 < t < 1$ b) $3 < t < 5$ c) $0 < t < 2$ d) $0 < t < 1$ e) none of these
- 10)** Is this a causal system? a) yes b) no c) it is not possible to tell