Convolution Integral

- i.
- ii.
- Folding Shifting Finding Area iii.

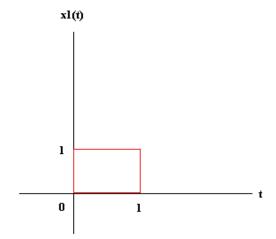
1st time:

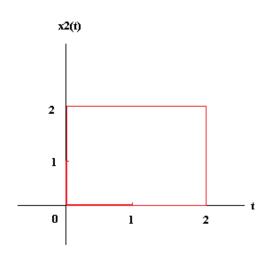
- i.
- Folding Finding Area ii.

2nd time and more

- i.
- Shifting Finding Area ii.

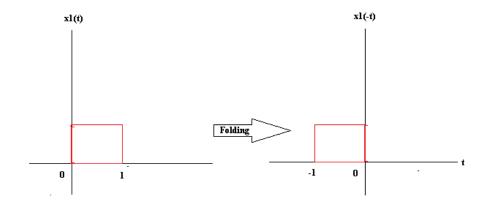
Q# 107 Find convolution integral of $x_1(t) * x_2(t)$



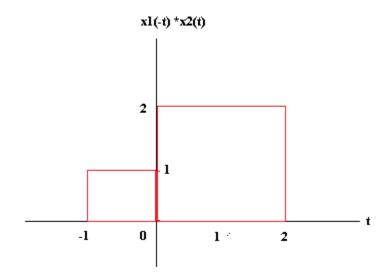


1st time:

i. Folding



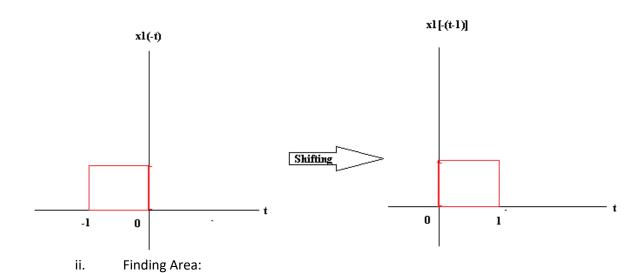
ii. Finding Area

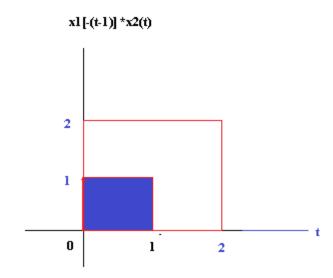


Finding Area: No overlapped area; x[0] =0

2nd time:

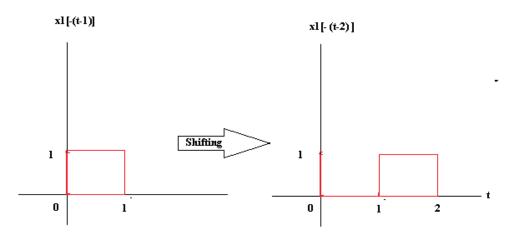
i. Shifting



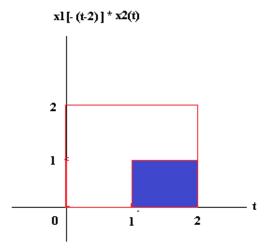


Area: $x[1] = 1 \times 1 = 1$

iii. Shifting

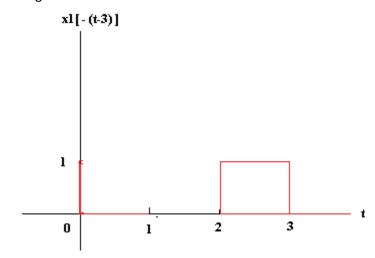


iv. Finding area

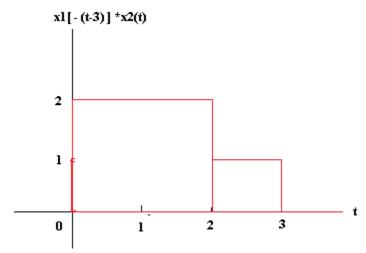


Area:
$$x[2] = 1 \times 1 = 1$$

v. Shifting:



vi. Finding Area:



No overlapped: x [3] =0

Hence the convolution integral is

