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CA1 -CO 2 -Quiz

1 message

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CA1 -CO 2 -Quiz

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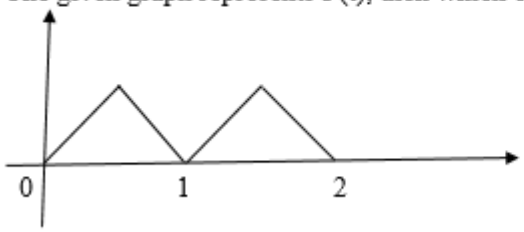
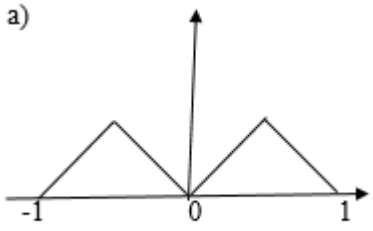
Say true or false: S1: Convolution operator (*) is commutative S2: f*1 = f

- ○ S1- True ; S2- True
- ◉ S1- True ; S2- False
- ○ S1- False ; S2- True
- ○ S1- False ; S2- False
- ○ Other: .....

The given graph represents f (t), then which of the following represents f (t) u (t-1)?

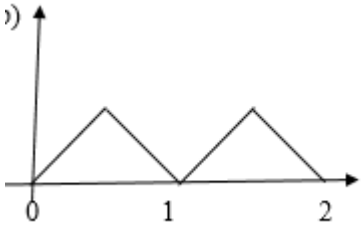


a)

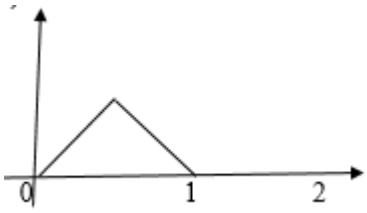


Option 1

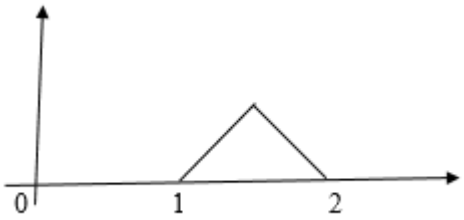
b)



Option 2



Option 3



Option 4

If $F(s) = \frac{5}{s(s-1)}$, then f(t) is

$(e^{-t} - 1)/5$

Option 1

$5(e^{t} - 1)$

Option 2

$(1+e^{t})/5$

Option 3

$5(1+e^{t})$

Option 4

Other:

$L^{-1}\left\{\frac{4s}{(s^2+25)^2}\right\} =$

$4\int_0^t e^{-5u}\sin 5(t-u)\,du$

Option 1

$4\int_0^t e^{-5u}\cos 5(t-u)\,du$

Option 2

$4\int_0^t \sin 5u\cos 5(t-u)du$

Option 3

$4\int_0^t \cos u\sin(t-u)\,du$

Option 4

Other:

In order to apply Laplace transform to the given IVP, substitution for 't' is
$y''(t)-2y'(t)-3y=0\ with\ y(4)=-3\,, y'(4)=-17$

t = t̃ + 4

- $t = \tilde{t} - 4$
- $t = 4\tilde{t} + 1$
- $t = 1 - 4\tilde{t}$
- Other: .....

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