Séance 5 QCM

Question 1

On considère
$$x(t) = 11_{(-\frac{1}{2}, \frac{1}{2})}$$

A. $\int_{-\infty}^{+\infty} S(t) x(t) dt = 1$

B. $\int_{-\infty}^{+\infty} S(t) x(t) dt = 1$

B.
$$\int_{-\infty}^{+\infty} S'(t) \chi(r) dt = 1$$

C.
$$\int_{-\infty}^{+\infty} S''(r) \propto (r) dr = 1$$

Question 2

A. H(1) est perir

B. S(t) est pair

C, S'(+) est pair

D. Vp (1) est pair

Question 3

on considére
$$\pi(r) = 4[-1/2, \frac{1}{2}]$$
 (+)
et $\chi(r) = \frac{\sin \pi r}{\pi r}$ sa toam s'formée de Fourier.
A. $TF[4[0,1][r]] = \frac{\sin \pi r}{\pi r}e^{-i\pi r}$

C. TF (Sin(2TH) V (F)
$$3 = \frac{1}{2i} \frac{\sin(2-1)\pi}{\pi(2-1)}$$

 $-\frac{1}{2i} \frac{\sin(2\pi t)\pi}{\pi(2+1)\pi}$

C.
$$TF[Sin(2\pi t) \chi(H)]$$

$$= \frac{1}{2i} \frac{Sin \pi(\lambda-1)}{\pi(\lambda-1)} - \frac{1}{2i} \frac{Sin \pi(\lambda+1)}{\pi(\lambda+1)}$$

D.
$$TF[\frac{1}{2}S(f+\frac{1}{2})-\frac{1}{2}S(f-\frac{1}{2})]$$

= 2 i $sin(\pi D)$

Question 4

A.
$$TF[+\infty(H)] = \frac{-1}{2i\pi I} \frac{d}{dx} \chi(x)$$

C. TF
$$\left[\frac{d}{dt} \times (t) \right] = \frac{1}{2} - \frac{1}{2} e^{-2i\pi D}$$

D.
$$TF[\chi(r)-\chi(r-1)]=(1-e^{-i\pi \lambda})\chi(\lambda)$$

Questions

On considère
$$\chi(r) = \pi_{C-1,03}(r) - \pi_{C-1,03}(r)$$

A. $TF[d|\chi(r)] = (e^{i\pi \nu} - e^{-i\pi \nu})^2$

C.
$$\int_{-\infty}^{+\infty} TF[x(t)-x(-t)](\partial)d\partial = 2$$

D.
$$\int_{-\infty}^{+} \chi(z) dz = (1-1H) \eta_{(-1,1)}(t)$$