

Since Johns Franklie $u(t) = u_0 \cdot \sin(\omega_0 t + s_0)$ $wif \quad \sin t = \frac{e^{jt} - e^{-jt}}{s_j}$ Li= Le (citaliunt - e in e vivet) mit û = "e e sise = vosièse - jhe was so

 $x = \frac{\pi}{2} = \frac{1}{4} = \frac{1}{4}$ The property of the construct of the c

$$\sigma(t) = \frac{1}{2} + \frac{1}{2} sgu(t)$$

$$\Rightarrow sgu(t) = 2(\sigma(t) - \frac{1}{2})$$

$$= 2\sigma(t) - 1$$

x(4)= rect (=) MD= 38H). esent + 3 The interior -(4) = (-) =r(++r) - 2r(+) + r(+-r) 1-(4)=7-12-1

$$X(1) = \frac{1}{2}S(1) \cdot e^{-\frac{1}{2}2\pi \frac{1}{2}} + \frac{1}{2}\sin^{2} \frac{1}{2}$$

$$-\frac{1}{2}S(1) \cdot e^{-\frac{1}{2}2\pi \frac{1}{2}} - \frac{1}{2}\sin^{2} \frac{1}{2}e^{-\frac{1}{2}2\pi \frac{1}{2}}$$

$$-\frac{1}{2}S(1) \cdot e^{-\frac{1}{2}2\pi \frac{1}{2}} - \frac{1}{2}\sin^{2} \frac{1}{2}e^{-\frac{1}{2}2\pi \frac{1}{2}}$$

2.1.9 Kausale Spulle - +(4)=0 /w t-c Kouselit wind essection $X_{k}(4) = +(4) \cdot \sigma(4)$

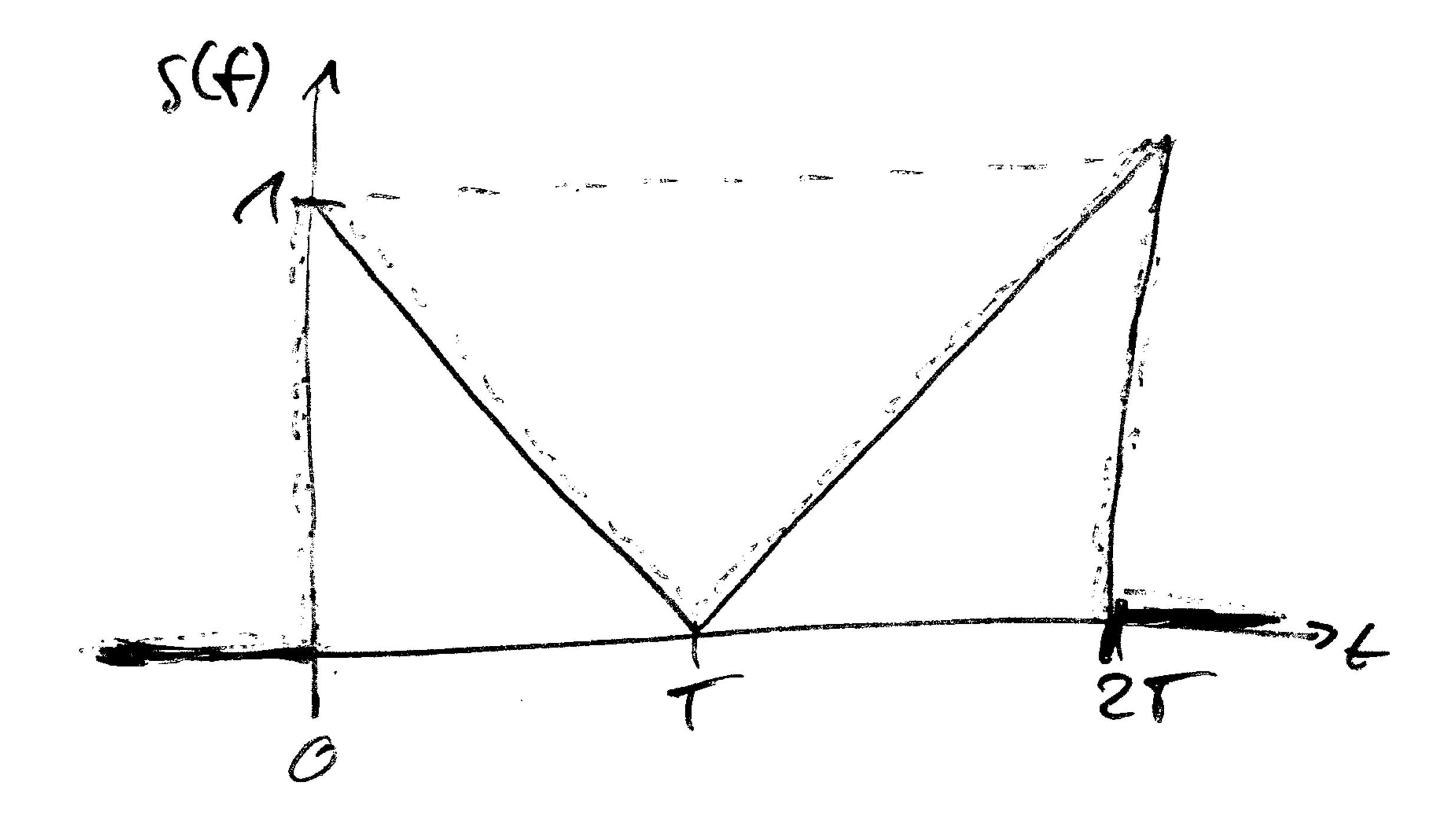
2010 Squel-has how been beliefy zestwordesser Eusaum ousches - eyfler Farrietruspull. Element Inch Dried, kalan, Matie (Mit). e 4751 (A.A.). E-311/127

= Tsi2(N/T)[e^{-j2N}/T + e^{j2N}/T] = Tsi2(N/T)e^{j3N}/T [e^{j3N}/T + e^{jN}/T] = Tsi2(N/T)e^{j3N}/T (e^{j2N}/T) - GS(N/T)

Gans - Tieffas X(1)=X(4)-6(4) 42(D=4(1)-6-4) = 4(1). [6(1)] xx(4)=x(4). [G(4)] = x(4). k(4) $= (4/4) = [G(1)]^4 = e^{-\pi^2 4^2 \frac{d}{dt}} = e^{-\pi^2 4^2 \frac{d}{dt}} = e^{-\pi^2 4^2 \frac{d}{dt}}$ 4(4) = 4/1 - (a) + - (

- while we say - Make but with the July viellings. Great frequence.

16 by 2-2.



Fourier Marsformiche S(f)?

1) rest
$$\left(\frac{t-\tau}{2\tau}\right)$$
 o $2\tau si(2\eta fr)e^{-i2\eta fr}$

2)
$$\Lambda(\xi - T)$$
 = $Tsi^2(\Lambda + T) \cdot e^{-Stir} + T$

Symme - Finalde x(4)= 59 u (4) iber Aspellin 25(4) 1 (4) = C (4)

 $= \frac{1}{2} + \frac{$