$$F(\omega_{1}) = \frac{\lambda_{1} \omega_{1}}{\lambda_{1} \omega_{2}} = \frac{2}{\lambda_{1} \omega_{2}}$$

$$F(\omega_{2}) = \frac{2}{1+\omega_{2}}$$

$$F(\omega_{1}) \cdot F(\omega_{2}) = \frac{2}{\lambda_{1} \omega_{2}} = \frac{2}{\lambda_{1} \omega_{$$

obradbe informacija (1) a) f(x,y) = sinc(x) sinc(y) x(t) 0- 25 x(-w) F(w) = (f(t) elwtot X(t) - X(w) reparablement: fo (x) folk) = = Fo (w) Fo(w) file ? simole). Sim Ka Glw) - Jewell, ent & -enul reduct t such Sugator dualmonts on (=x) a . 7 (w) = (452 141 = \frac{7}{2}

X\frac{7}{2} on Table For (we) 15 | we have 25 | we have For (ca) felow = 40 = ea (wal = V, |we) = V b) {(x,y)=e-1x1-81 F(w, we) = [f(x,y)e Jw, x e Jany dx dy d(x,y) = d(x) d(y) F(w, we) = Mx(x)eJw, xdx &y(y)eJwgydy = F(w,) F(w) {(x,y)-e-1x1 e-1y1 = {(x)-8(y)=> F(wn,w2)-(e-1x1e-Jux)dx. [e-1x1e-Juxydy =[[e*eJun*dx+ [e*eJun*dx][[e4 eJun2] dy+ [e-4e-Jun2] dy] $F(\omega_n) = \int_{-\infty}^{\infty} e^{(n-j\omega_n)x} dx + \int_{-\infty}^{\infty} e^{-(n+j\omega_n)x} dx = \frac{1}{1-j\omega_n} \frac{(n-j\omega_n)x}{1-j\omega_n} - \frac{1}{1-j\omega_n} \frac{e^{-(n+j\omega_n)x}}{1-j\omega_n}$

F = 0 + 0 Was el miles G=Ws FWa = [1 03 03] [1 03 03] | cos 5 - 105 03 05 | cos 5 - 105 03 05 | cos 5 - 105 05 05 | co 1 - (1) - (1 1+008= - 191 - 181 - 100 - 10 - 180 - 10 - 1 - 2 = 0 14 con 18 - 18 m 48 1 con 20 - 18 m 25 = 0 1+005/30- 1900 12 +005/50- 1900/60 =0

G=W_nFW_nT F=C_(W_n^H)^TG_W_n' 2DFT - Matrice W_n i W_n su simetricae W_n^H = eV35 ak W_n e = eV35 ak

 $W_{n}^{-1} = W_{n}^{+} = (W_{n}^{+})^{T} = W_{n}^{+}$ $W_{n}^{-1} = W_{n}^{+} = (W_{n}^{+})^{T} = W_{n}^{+}$ $W_{n}^{-1} = W_{n}^{+} = (W_{n}^{+})^{T} = W_{n}^{+}$ $W_{n}^{-1} = W_{n}^{+} = W_{n}^{+} / W_{n}^{+} W_{n}^{+} = W_{n}^{+}$ $W_{n}^{-1} = W_{n}^{+} = W_{n}^{+} / W_{n}^{+} W_{n}^{+} = W_{n}^{+}$ $W_{n}^{-1} = W_{n}^{+} = W_{n}^{+} / W_{n}^{+} = W_{n}^{+}$ $F = W_{n}^{+} = W_{n}^{+} = W_{n}^{+} = C(W_{n}^{+})^{T} = W_{n}^{+}$ $C((W_{n}^{+})^{T})^{T} = W_{n}^{+}$ $C((W_{n}^{+})^{T})^{T} = W_{n}^{+}$

C Wn * = Wn = > C = 1+9/

Co =
$$\frac{1}{12}$$
 $\frac{1}{12}$ $\frac{1}$

Matrica Sz ge unitarna.