$$\cos^2(29f_1t) = \frac{\cos(49f_1t) + 1}{2}$$

$$= \frac{1}{2} \cos(4 \hat{a} f_1 t) + \frac{1}{2}$$

$$= \frac{1}{4}e^{j4\pi f_1 t} + \frac{1}{4}e^{j4\pi f_1 t} + \frac{1}{2}$$

$$M \leftrightarrow cosc_{2\pi fit}$$
 $\rightarrow 4M(j(w+4\pi fi)+2M(j(w-4\pi fi))$

$$+2M(jw)$$

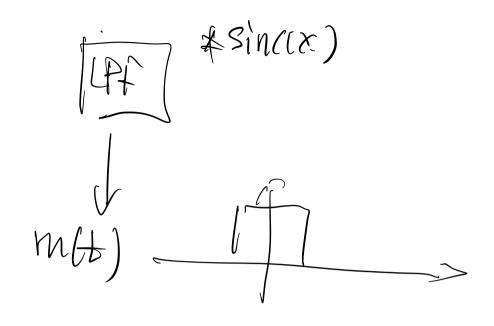
$$\frac{717}{2j} 8(w - 471f_1) - \frac{71}{2j} 8(w + 471f_1)$$

cos(27/4+) cos(27/42+)

$$\begin{array}{l}
\text{CTFT} = \frac{\pi}{2} (SLW - 2\pi (f_1 + G_1) + SLW + 2\pi (f_1 + f_2)) \\
+ S(W - 2\pi (f_1 - f_2)) + S(W - 2\pi (f_2 + G_1))
\end{array}$$

4 (MG (w-27(f1+f2))+ MG (w+27(f1+f2)) +MG (w-27(f1-f2))+MG (g(w-27(f2-f1))

X(t) = M1(t) COS(271fit) + M2(t) COS(271f2+) + M3(+)SIA (27 Fit) * sinc(x) coscerfit) X(+)



Mact) sintafit



Sin