1. É	$\mathcal{E}\left[-\frac{1}{2fo}, \frac{1}{2fo}\right] \rightarrow fo = -\frac{1}{2fo}$
× (4:	=   A Cos (211 Fot ) 2
7 =	$\frac{1}{2f_0} - \left(-\frac{1}{f_0}\right) = \frac{2}{2f_0} = \frac{1}{f_0} = f_0$
· + 6	$\begin{bmatrix} -\frac{r_0}{2}, \frac{r_0}{2} \end{bmatrix}$
x (f	$= A^{2}(\cos^{2}(2\pi F_{0}t))$
5	$= A^{2} \left[ \frac{1}{2} + \frac{1}{2} \left( \cos \left( 2\pi 2 fot \right) \right) \right]$
	$0 = \frac{A^2}{2} + \frac{A^2}{2} \cos(2\pi i f_0 f_0 f_0)$
	Trigonometrica
x (4	$= A^{2} \cos^{2}(217 Fot)$
	$= A^2 \left( 1 + \cos \left( 2 \cdot 2\pi F_0 \ell \right) \right)$
	1,2

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2. Y(w) = F{y(t)} = F{(1 + -(1) ) c(0)} = F{(10)} + 1 [(m(1)c(1))] Utilizando tablas de Fourier C(w) = F{c(t)} = f{Ac cos (2nFet)} = Ac F{ei2nFet + ci2nFet} f{e: -1 wol 3 = 27 5 (with) Por consiguente ((w) = Ac 11 (S(w - 27 Fc) + S(w + 27 Fz)) De Joing similar 1 F{m(t)c(t)} = 1 F{m(t) Ac cos (21) Fet)} = F {m(t) e i 2 m Fet + m(t) e i 2 m Fet }

Ac F {x(+) etimot} = x(w = w.) 1 F fm (1) c (6) 3 = 1 (M Cw - 217 Fe) + M (w + 217 Fe)) Finalmente Y(w) = Ac T (S(w-27/E)+S(w+21/Fe)) + 1 (M (w-27/Fe) + M(w+21/Fe))