Sol de filizant Para Obtener la transforada on cambio de variable Sey t=KT, enfonces F(KT) = COS W KT tuns formady Z Aplicarios la definición de la F(Z) = \( \sum\_{K0}^{\text{Z}} Utilizanos la identidad de culor COS X = 0 x + e)x Sustitugendo en la sovie y apticando la propieda de line,

F(3) = 2 ( dvkT + e vkT ) 2 K

F(2) = 
$$\begin{cases} t^2 \\ 0 \end{cases}$$
,  $t \ge 0$   
Sol:  
F(2) =  $\begin{cases} t^2 \\ 2^K \end{cases}$   
F(2) =  $\begin{cases} t^2 \\ 2^K \end{cases}$   
K=0  
Por el tenena de relliplicación per una vampla  
F(2) =  $-2T d t z^K = -2T d t z^K d t$   
=  $-2T d (0 + Tz^1 + 2Tz^2 + 3Tz^3)$   
=  $-2T^2 d (2 - 2)^2$   
devivance  
=  $-2T^2 d (2 - 2)^2$   
 $d = -2T^2 d (2 - 2)^2$ 

Factoriza nos (Z-1) del normador

$$= ZT \left( \frac{Z+1}{(Z-1)^3} \right)$$

$$F(z) = 77 \frac{2(z+1)}{(z-1)^3}$$

$$G(s) = \frac{10}{5CSH2NCSH10} / T=0.1$$

$$\frac{10}{5CSH2NCH10} = \frac{A}{3} + \frac{1}{5H2} + \frac{1}{5H2}$$

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$$10 = ACS^{2} + 6SH8 + \frac{1}{5H2} + \frac{1}{5H2} + \frac{1}{5H2} + \frac{1}{5H2} + \frac{1}{5H2}$$

$$A+B+C=0 \Rightarrow B=-C-A$$

$$6A + 4B+2C=0 \Rightarrow B=-C-A$$

$$6A + 4B+2C=0 \Rightarrow A=-6A-4B=76=-2A-2B$$

$$8A=10 \Rightarrow A=\frac{2}{4}$$

$$B=+\frac{1}{4}-20-\frac{1}{4}\Rightarrow B=-\frac{10}{4}=\frac{5}{2}$$

$$B=-\frac{10}{4}=\frac{5}{2}$$

$$G(s) = \frac{1}{4} \cdot \frac{1}{3} - \frac{1}{3} \cdot \frac{1}{5H2} + \frac{1}{4} \cdot \frac{1}{5H4}$$

$$G(s) = \frac{1}{4} \cdot \frac{1}{2} - \frac{1}{3} \cdot \frac{1}{3$$

4(3-1)(3-0.71)(3-0.67) (110)(11. 6(2)= Porto funto 122 2 1984 2 3 198 Tenenco que 13,31,32=0.81,83=0.67 STEEL Map Distance of the Contract of the A Land of the second of the se