Instituto Federal de Educa GABRIEL

Nome: John 1. Utilizando a transformada de Laplace, conveta a

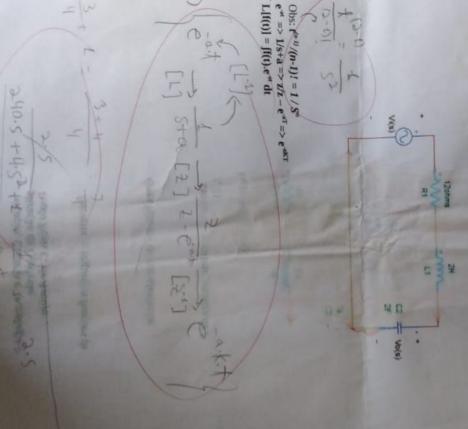
frequência:

A) $x(t) = 3*e^{-2t} + 4*e^{-4t}$ B) x(t) = 4*t + t/3;

2. Encontre a transformada Z das seguintes funçõe A) F(s) = 2/(s+2).(s+5) B) G(s) = (s+4)/(s+1).(s+2).(s+3)

3. Determine a saída de um filtro mediano dada a s Entrada = (4, 5, 5, 6, 100, 5, 2, 1, 2, 90, 2)

4. No circuito abaixo, determine a relação Vo(s)/Vi(s)-



Of Chief Council

(FOFES DO ALVING: JORGO GABRIEL C.M)

(A)
$$\times (t) = 3. e^{2t} + 4.e^{4t} \rightarrow \times (t) = 3. \left(\frac{1}{5+2}\right) + 4.\left(\frac{1}{5+4}\right)$$

$$= \left[\frac{1}{5+2} + \frac{1}{5+4}\right]$$

$$= \left[\frac{1}{5+2} + \frac$$

$$= \frac{3 \cdot 2}{2 \cdot (z - e^{4})} - \frac{3}{2 \cdot e^{4}} + \frac{(2)}{2 \cdot (z - e^{4})}$$
3) ENTRADA = $(4(4),5,5,6,100,5,2,1,2,90,2)$ 2
$$\frac{4|4|5 - 4}{4|5|5 - 5} + \frac{2}{2},\frac{5|40}{2} - 5 + \frac{9}{2},\frac{2}{2},40 - 2$$

$$\frac{4|5|5 - 5}{5|5|6 - 5} + \frac{1}{2},\frac{3}{2},2 - 2$$

$$\frac{5|5|6 - 5}{5|5|6 - 5} + \frac{1}{2},\frac{3}{2},2 - 2$$

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$$\frac{5|5|6 - 2}{5|6 - 2} + \frac{1}{2},\frac{3$$

