Sample o Datao

no calculations

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Teammates

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Instructions: Follow the steps on this worksheet, using your lab manual as a guide, unless directed to do otherwise by your lab instructor. Show at least one sample calculation for each step. Box final mathematical results. Do not forget the units.

$f = 30\,kHz$

$V_{pp} = 6V$

Data

Measure the period of the input signal, and the actual values of Resistance, and Capacitance. Record your values in Table 1.

Table 1.- Parameters

Resistance (Ω)	Capacitance (F)	Signal's Period (s) (s)	Angular Freq. (rad/s)
$R = 32.25\,k\Omega$	$C = 108.8\,pF$	$T = 33.33\,\mu s$	$\omega =$

Measure the peak-to-peak voltage drop across the resistor and capacitor for each of the input voltages listed in Table 2. Record your values in the same table.

Table 2.- Voltage Drops

$\Delta V_{s\,p-p}$ (V)	$\Delta V_{R\,p-p}$ (V)	$I_{con\,p-p}$ (A)	$\Delta V_{C\,p-p}$ (V)	$I_{dis\,p-p}$ (A)
6V	2.6V		4.2V	
8V	3.6V		5.6V	
10V	4.4V		7.0V	
12V	5.4V		8.4V	
14V	6.2V		9.8V	
16V	7.0V		11.2V	
18V	8.0V		12.6V	