gain: $\frac{V_{out}}{V_{in}} = \frac{11\,V}{1\,V} = 11$

$\Delta t_d = 6.75\ ms$

$6.25\ ms$

$\Rightarrow \Delta t_d = 0.5\ ms$

$\varphi = \frac{\Delta t \times 360}{T} = 180°$

$\varphi = \frac{\Delta t \times 360}{1}$

$\varphi_{out} = 180°$

Δt delay

$6.75 - 6.25 = 0.5$

1

0.5

$$A = \frac{1}{1} = 1$$

$$A = \frac{2}{} = \frac{11}{} = 11$$

$$+ \quad 1$$

$V_{in} = ?$

$\Delta \mathcal{C} = ?$

$$= \frac{5.12\ V}{1.04 V} = 4.92$$

$V_{gain} =$

b)

$$V_{gain} = \frac{11.4}{1.2} = \ldots$$

$$v = V_m \cos(\omega t + \phi)$$

$$f = \frac{1}{T} \Rightarrow \omega = 2\pi f = \frac{2\pi}{T}$$

(1) $v_{in} = A_{in} \sin(2\pi f t + \phi_{in})$ → ?

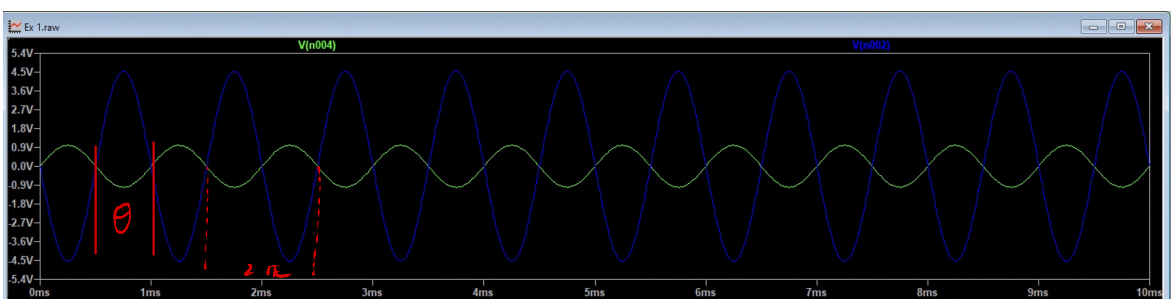
(1) $v_{out} = A_{out} \sin(2\pi f t + \phi_{out})$ → ?

$$\Delta\phi = \phi_{out} - \phi_{in}$$

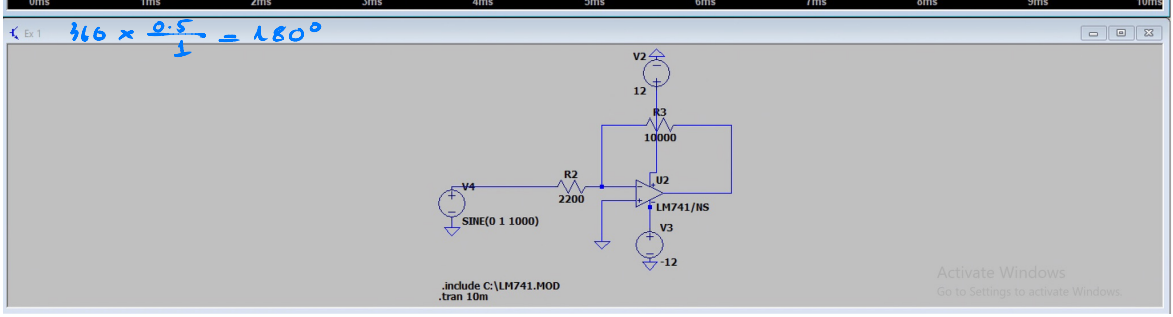
$$\Delta\theta = \frac{\Delta x}{2\pi} \times 2T$$

$$v_{in} = 1 \sin(2\pi \times 0.5 + \phi_{in})$$

$$v_{out} = 4.5 \sin(2\pi \times 0.5 + \phi_{out})$$



$316 \times \frac{0.5}{1} = 180°$



566 : 501

$v_{in} = 1.04 V$

$v_{out} = 2.80 V \times 2 \rightarrow 5.60 V$

$\rightarrow v_{gain} = \frac{5.60}{1.04} = 5.38 V$

$V_{out} = 5.5 \ V$

$V_{in} = 1 \ V$

$gain = \frac{5.5}{1} = 5.5$

Section 2:

$V_{in} = 1 \ V$

$V_{out} = 11 \ V \rightarrow Gain = 11 \ V$

Measure : $\frac{11.20}{1.04} = 10.76 \ V$

$v_{in} = 1.04$

$v_{out} = 2.28 \times 2 = 11.4$

$A_v = \frac{}{}$

$\Delta t =$