

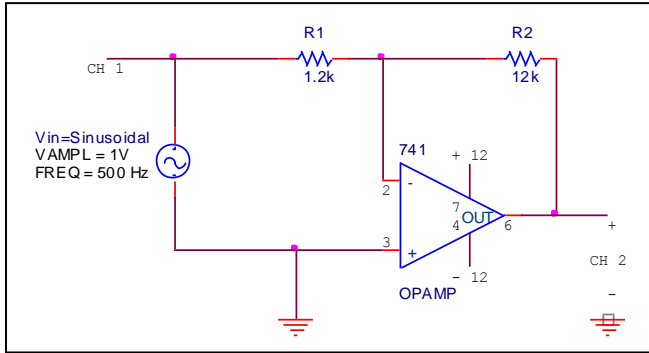
ECE 232

Lab3

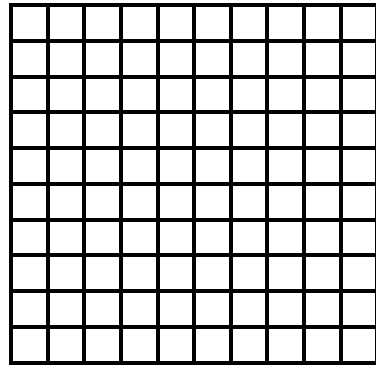
Inverting amplifier, Integrator, Differentiator, Phase Difference

Experimental Work:

1. Set up the inverting amplifier circuit shown below using op-amp and sketch the input and output waveforms.

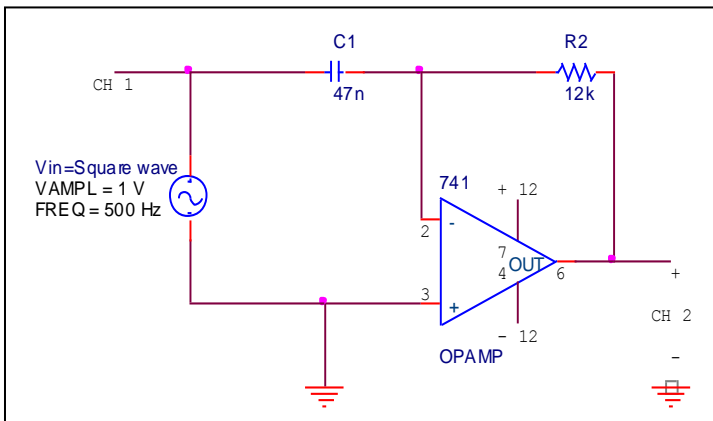


V (volt)

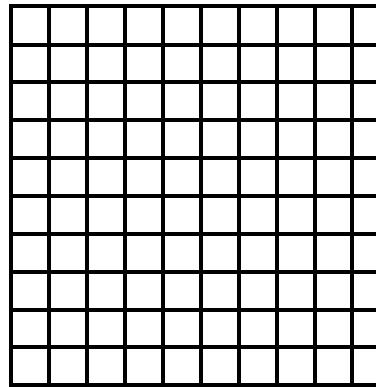


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2.a. Set up the circuit below. Give a square input of 1-volt peak and 500 Hz. Sketch the input and the output waveforms. In what way are input and output waveforms related. (Hint: this is a differentiating circuit.)

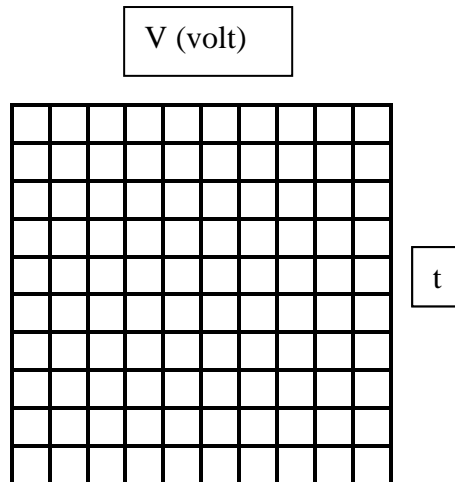


V (volt)



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2.b. Instead of square wave if triangular wave is given to the circuit, what will happen? Plot the input and output.



3. In the following circuit the input is a square wave of 2V peak-to-peak with 0V DC offset and $f=500$ Hz. Sketch the input and output waveforms. Comment on the input and output waveforms. In what way they are related. (This is an integrating circuit).

