EC160 LAB 9

Name: Snehal Keshav Nalawade

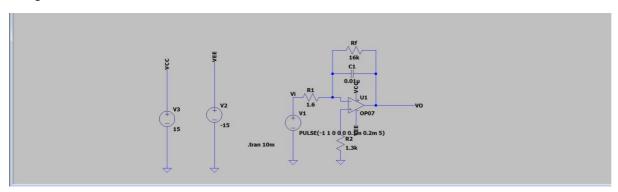
ID: 202151160

Aim: Operational amplifier: Integrator and Differentiator

Observations:

1) Circuit diagram:

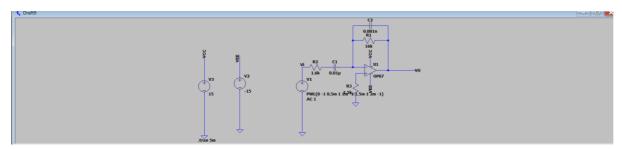
Integrator circuit:



R1=1.6ohm, Rf=16kohm, R2=1.3kohm,

C1=0.01uF

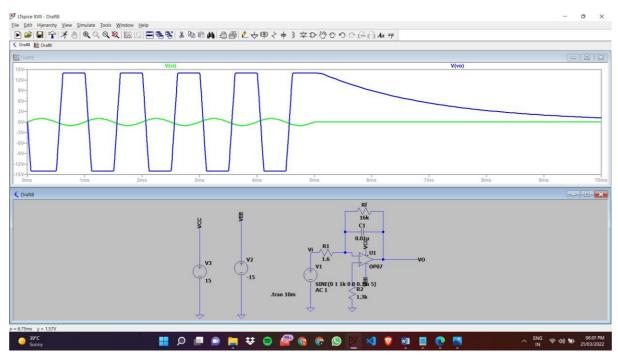
Differentiator circuit:



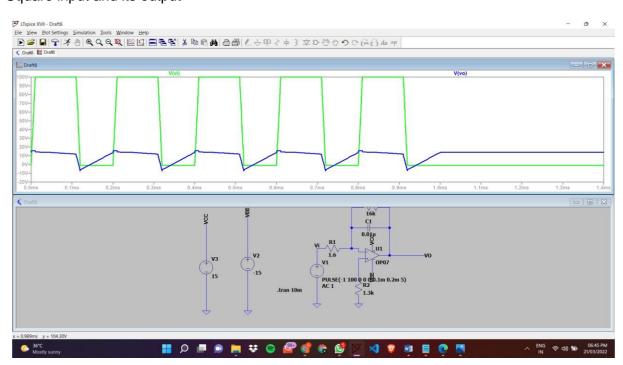
 $R1=16kohm,\ R2=1.6kohm,\ R3=1.5kohm,\ C1=0.01uF,\ C2=0.001Nf$

2. Observations with integrator circuit:

Sinusoidal input and its output

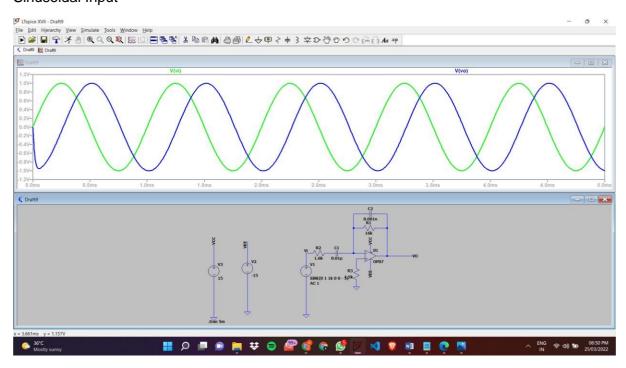


Square input and its output

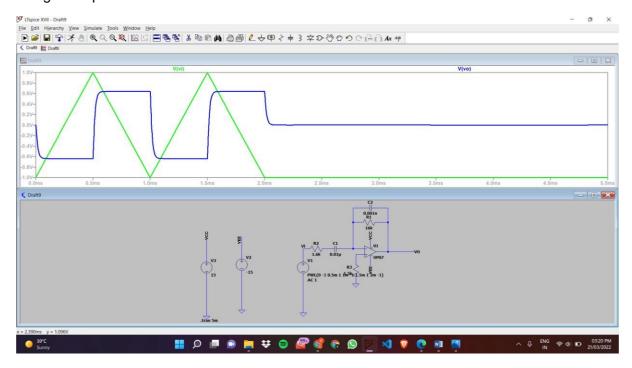


3. Observations with Differentiator circuit:

Sinusoidal Input



Triangular Input



Thank you