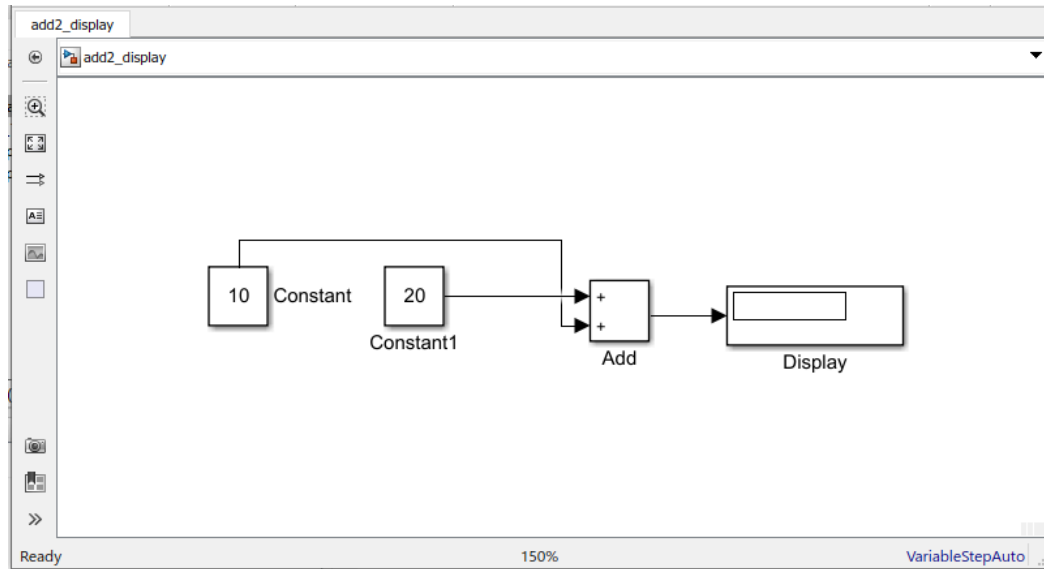


Simulink

Lets add two numbers



Exxample:

$$dy/dt = 4 \sin 2t - 10 y$$

$$y(t) = \int (4 \sin 2t - 10 y) dt$$

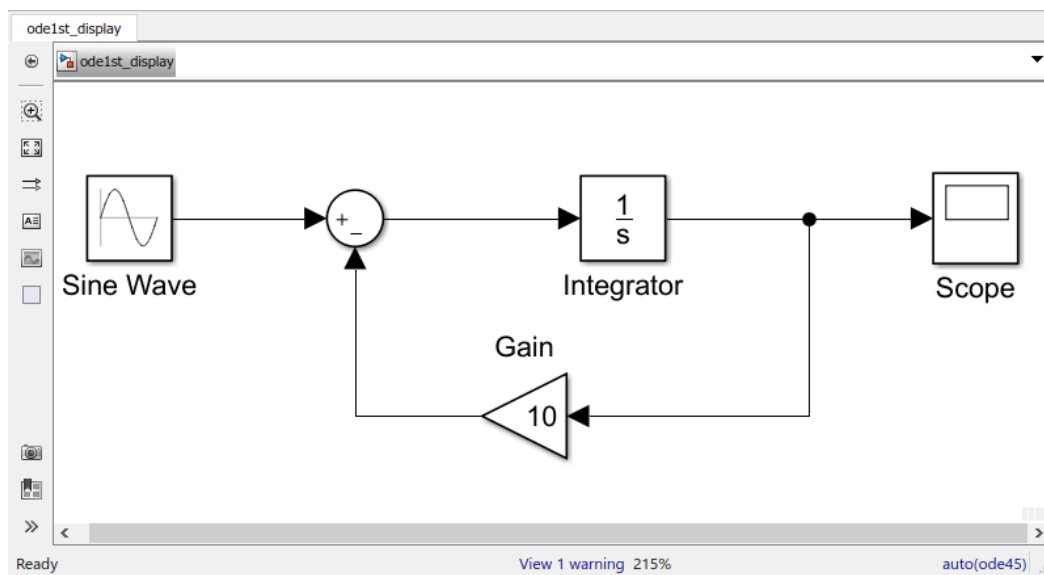
Note: For solving differential equaiton dintegrator block must

But for 2nd order double integrator block must be used

Simulink

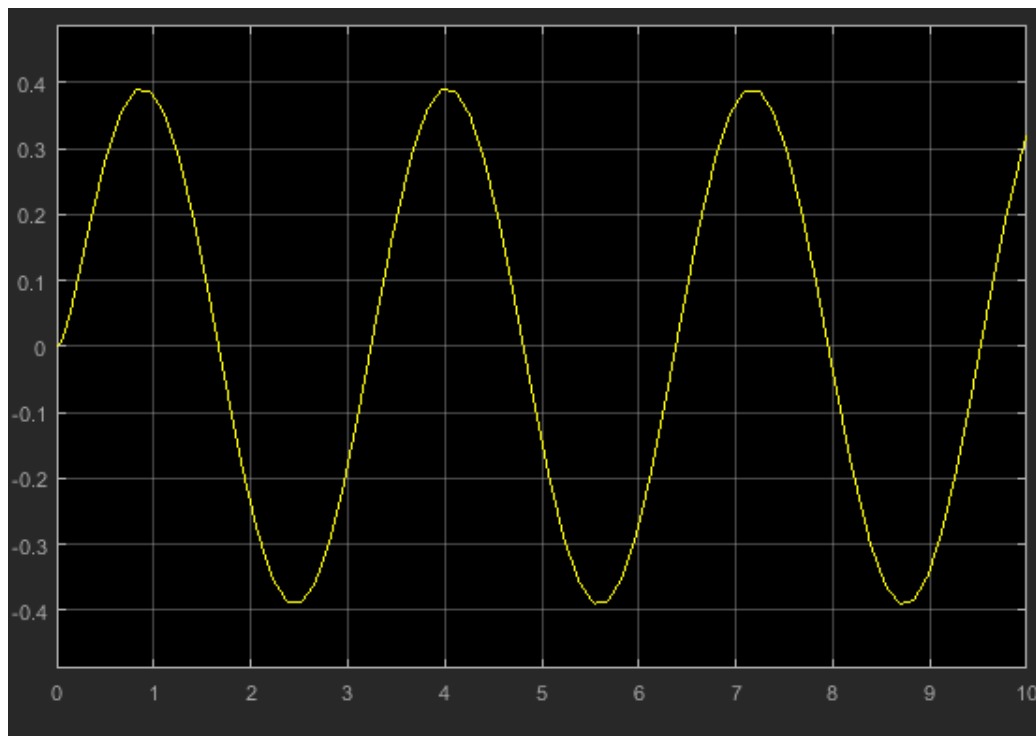
Library Browser

Sine wave aplitude 4 and frequency 2



Gain must be connected after integrator as input and add or in O input with 2 inputs and after that the source will show output

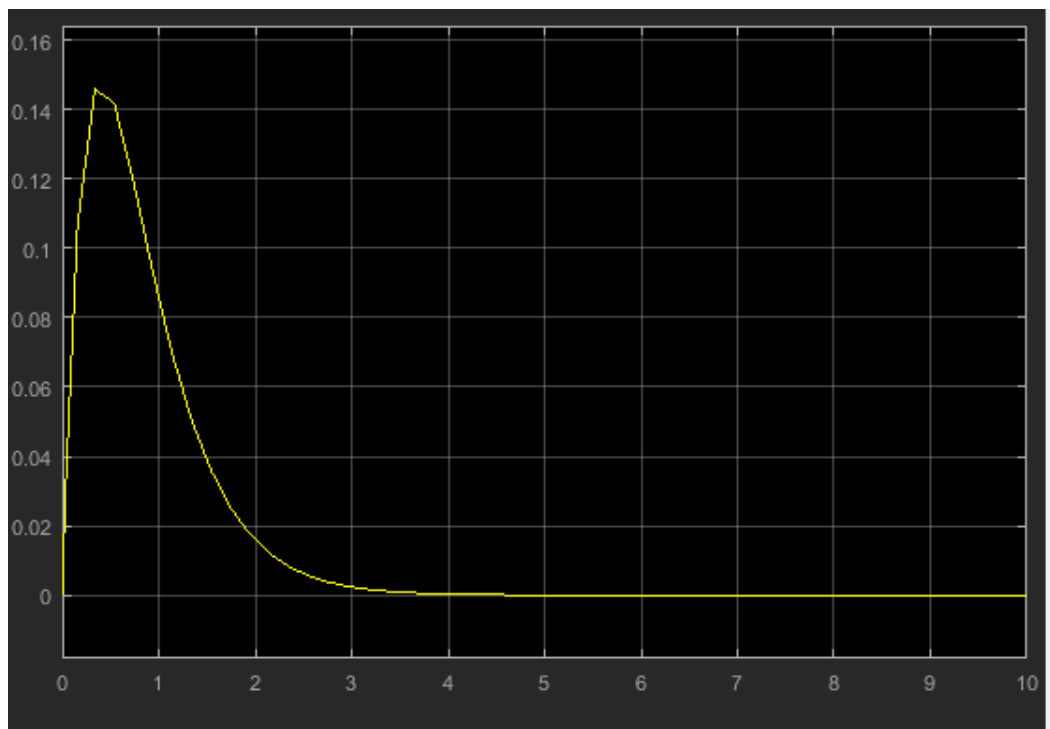
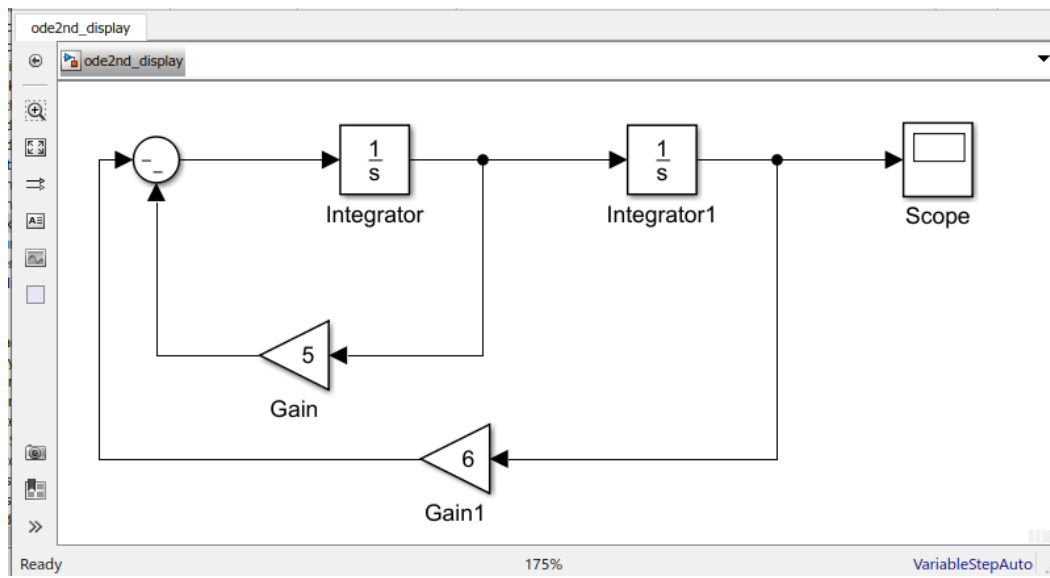
if variable change to t then sanerio change



Example:

$$y'' + 5y' + 6y = 0, y(0) = 0, y'(0) = 1$$

$$y'' = -5y' - 6y$$



Note: if double integrator is only involved in the equaiton then only use integrator, sexcond-order

After mids only

ode45

bvp4c