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Code:-
                                                                      """P(T-t)"""
from matplotlib import pyplot as mt
                                                                      T = int(input('enter the T to shift :- '))
                                                                      for i in range(len(t)):
import numpy as np
                                                                         t[i] = t[i] + T
def plot(n,t,k,c,b):
  mt.subplot(3, 2, n)
                                                                       plot(3,t,k,'post',min(t))
  mt.step(t,k,where=c)
                                                                       mt.title('p(T-t)')
  mt.grid(True, which='both')
                                                                      """h(t)"""
  mt.vlines(x=b, ymin = 0.0, ymax = max(k))
  mt.axhline(y=0,color = 'black')
                                                                      j = int(input('Enter the gain (k):-'))
                                                                      for i in range(len(k)):
  mt.ylabel("Gain")
  mt.xlabel("Time")
                                                                         k[i] = k[i] * j
a = input('Enter the voltage level of the pulse:-')
                                                                       plot(4,t,k,'post',min(t))
numList1 = a.split()
                                                                      mt.title('h(t)')
A2 = list(map(int, numList1))
w = int(input('enter the width of the pulse :- '))
                                                                       plot(5,t,k,'pre',min(t))
T = np.arange(0, w+0.5, 0.5)
                                                                       mt.xticks([])
t1 = list(T)
                                                                      mt.yticks([])
A1 = [0] + A2*(len(t1)-2) + A2
                                                                      mt.ylabel(")
t = t1.copy()
                                                                       plot(6,t,k,'pre',min(t))
k = A1.copy()
                                                                      mt.xticks([])
fig, ax = mt.subplots(3, 2)
                                                                      mt.yticks([])
fig.tight_layout(h_pad=2)
                                                                      """p(t) * h(t) convolution"""
"""P(t)"""
                                                                      output = np.convolve(A1,k)
plot(1,t,k,'pre',max(t))
                                                                      output = list(output)
mt.grid(True, which='both')
                                                                      output.pop(0)
mt.title('P(t)')
                                                                      output.pop(-1)
                                                                      t3 = list(range(0,len(output)))
"""p(-t)"""
                                                                       print('The convolution is ',output)
                                                                      fig.add_subplot(3, 1, 3)
for i in range(len(t)):
  t[i] = t[i] * -1
                                                                       mt.plot(t3,output)
t.reverse()
                                                                      mt.grid(True, which='both')
k.reverse()
                                                                       mt.ylabel("Gain")
plot(2,t,k,'post',min(t))
                                                                       mt.xlabel("Time")
mt.tick_params(labelright = True, labelleft = False)
                                                                      mt.title('convolution')
mt.title('p(-t)')
                                                                       print('Made by varad patil')
                                                                       mt.show()
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Output:-

Enter the voltage level of the pulse:-1 enter the width of the pulse:-1 enter the T to shift:-1 Enter the gain (k):-1 The convolution is [1, 2, 1] Made by varad patil

