

```
In [ ]: %matplotlib inline
import matplotlib.pyplot as plt
import numpy as np
import scipy.signal as sig
```

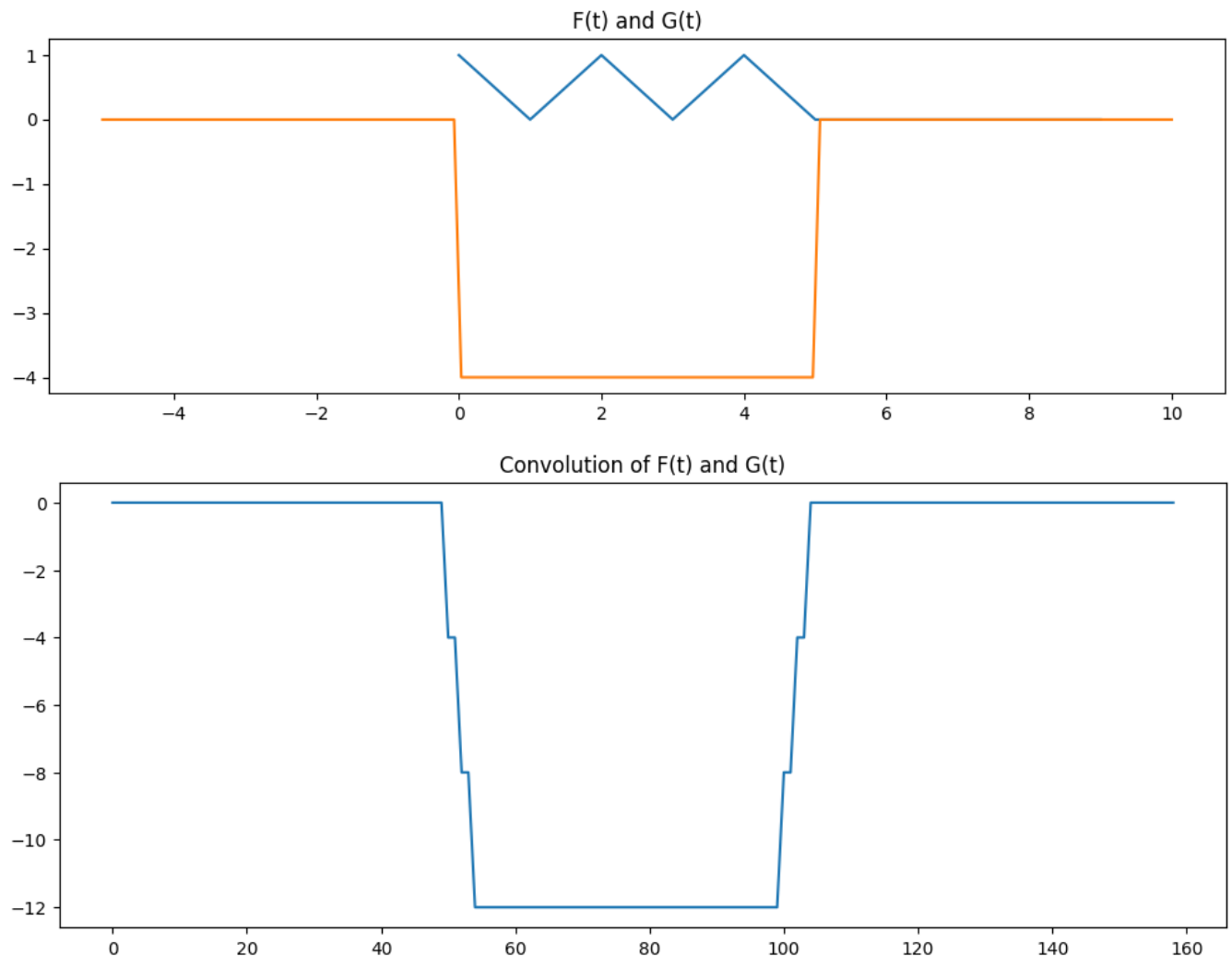
```
In [ ]: n = np.linspace(-5, 10, 150)

f = sig.unit_impulse(10, [0, 2, 4])
g = 4 * (np.heaviside(-n, 1) - np.heaviside(-n + 5, 1))
y = np.convolve(g, f)

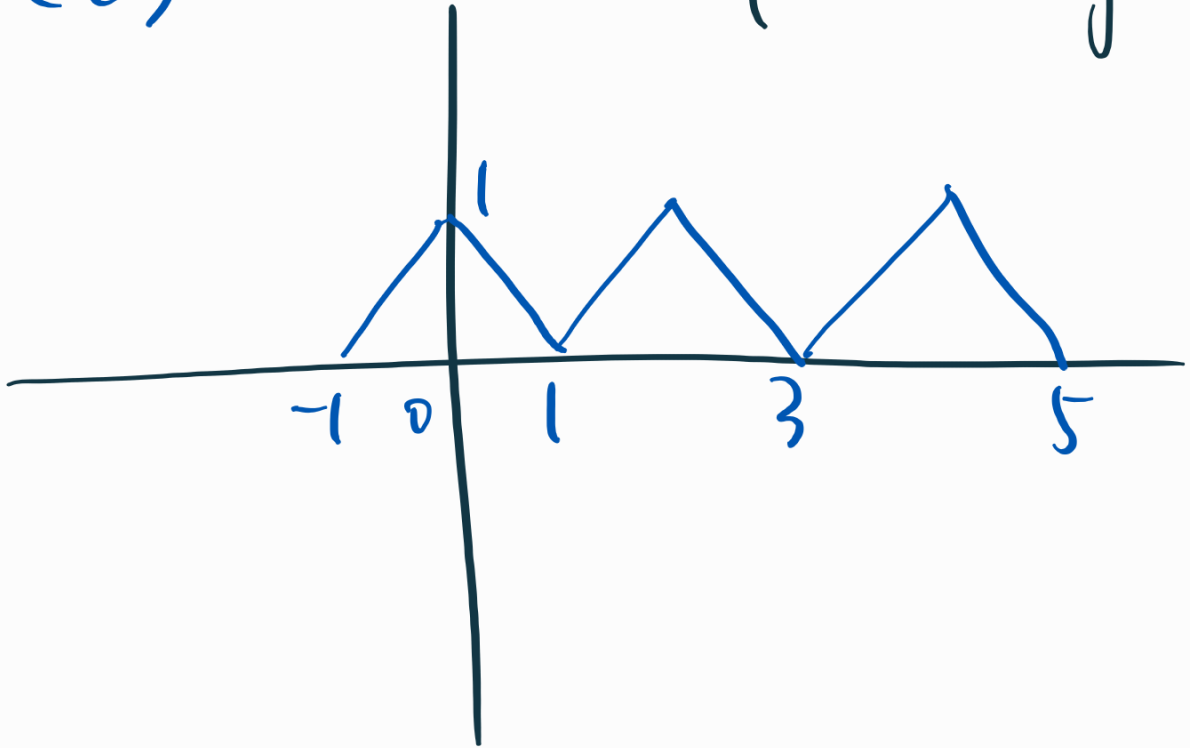
plt.figure(figsize=(12, 8))
plt.subplot(211)
plt.plot(f)
plt.plot(n, g)
plt.title('F(t) and G(t)')

plt.figure(figsize=(10, 8))
plt.subplot(212)
plt.plot(y)
plt.title('Convolution of F(t) and G(t)')

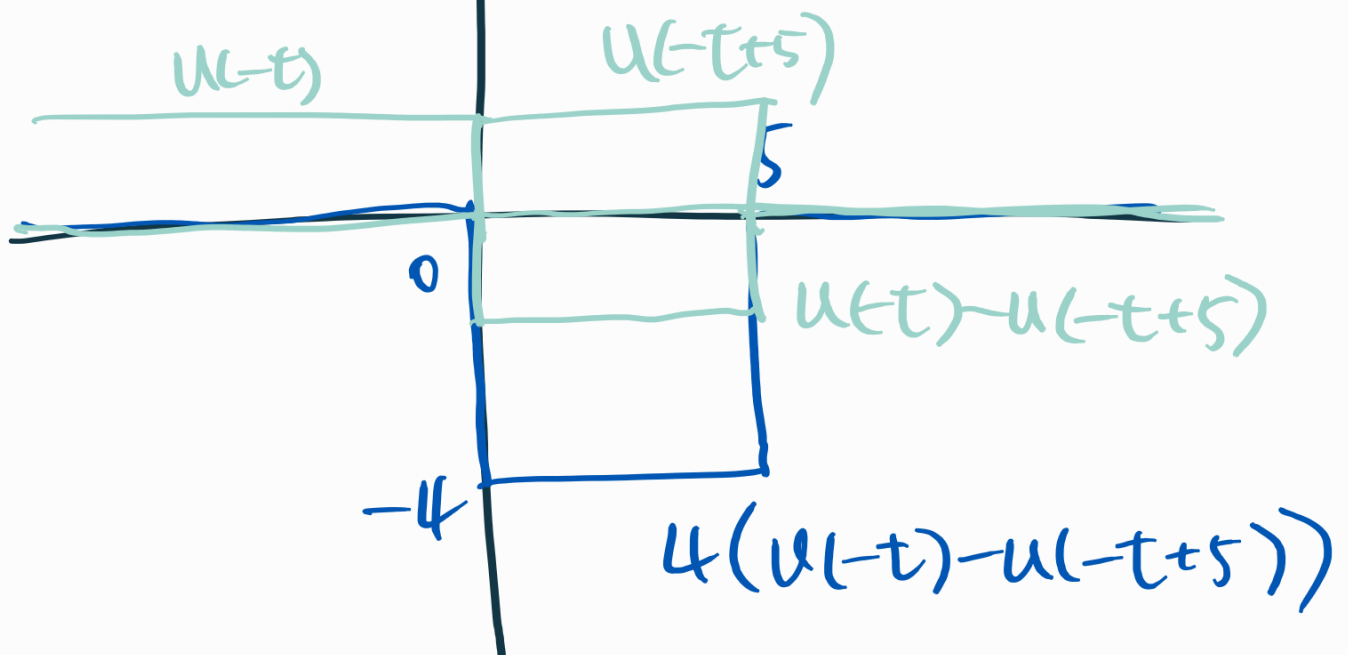
plt.tight_layout()
```



$F(t) = \Lambda(t)$ repeating



$$G(t) = 4 \times [u(-t) - u(-t+5)]$$



$$y(t) = F(t) * G(t)$$

