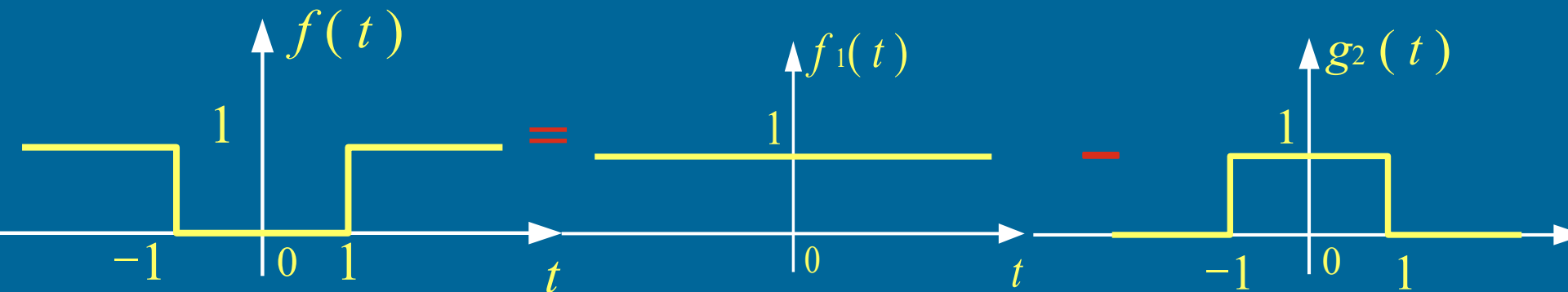


# 线性性质例

例如：求  $F(j\omega) = ?$



解：  $f(t) = f_1(t) - g_2(t)$

$$f_1(t) = 1 \longleftrightarrow 2\pi\delta(\omega)$$

$$g_2(t) \longleftrightarrow 2\text{Sa}(\omega)$$

$$1 \longleftrightarrow 2\pi\delta(\omega)$$

$$g_\tau(t) \longleftrightarrow \tau\text{Sa}\left(\frac{\omega\tau}{2}\right)$$

$$\therefore F(j\omega) = 2\pi\delta(\omega) - 2\text{Sa}(\omega)$$