











可见不论变换顺效响,所将结果均一致

1-14
(2) 
$$\int_{-\infty}^{\infty} f(t_0-t) S(t) dt = \int_{-\infty}^{\infty} f(\alpha) S(t_0-\alpha) d\alpha = \int_{-\infty}^{\infty} f(\alpha) S(\alpha-t_0) d\alpha = f(t_0)$$

(b) 
$$\int_{-\infty}^{\infty} (t+sint) \int (t-\frac{\pi}{6}) dt = (t+sint) \Big|_{t=\frac{\pi}{6}} = \frac{1}{2} + \frac{\pi}{6}$$

$$(7) \int_{-\infty}^{\infty} e^{-jwt} [\int_{-\infty}^{\infty} (t) - \int_{-\infty}^{\infty} (t - t_0)] dt = e^{-jwt} \Big|_{t = 0} - e^{-jwt} \Big|_{t = t_0} = |-e^{-jwt_0}|_{t = 0}$$