$$(-1)^{n} = (e^{j\pi})^{n}$$

$$y[n] = e^{j\pi n} g[n] \qquad \text{frequency shifting property}$$

$$y(\omega) = Q(\omega - \pi) \qquad \text{(Line 3 of Table 2.2)}$$

$$y(\omega)$$

$$\frac{1}{T} \qquad \pi^{-\frac{n}{L}} \qquad \pi^{+\frac{n}{L}}$$

$$y(\Omega) = H(\Omega) \cdot y(\Omega T) \qquad \text{Note different interpolation period } T'.$$

$$where \qquad H(\Omega) = \begin{cases} T', & |\Omega| < T' \\ 0, & \text{otherwise} \end{cases}$$

$$y(\Omega T') \quad \text{simply squeezes } y(\omega) \quad \text{by } T'$$

$$\frac{1}{T} \qquad \frac{1}{T} \qquad \frac{\pi^{-\frac{n}{L}}}{T} \qquad \frac{\pi^{-\frac{n}{L}}}{T$$

$$X(\omega) = \frac{1}{T} \sum_{k=-\infty}^{\infty} X_{c} \left(\frac{\omega}{T} - \frac{2\pi T k}{T}\right) \qquad \text{Egn. 4.20}$$

$$X(\omega) = X(\omega)$$

$$X(\omega) =$$