Note that page numbering is turned on in this template.

The general results are

$$X(\omega) = X_{\mathbf{pulse}}(\omega)\,(1/2)\,\omega_1 \sum_{m=-\infty}^{\infty} [\,A + B(-1)^m\,]\,\delta(\omega - m\omega_1/2)\,. \qquad \textit{(34.18)}$$

$$\mathcal{P}(\omega) = \mathcal{P}_{\mathbf{pulse}}(\omega)\,(1/4)\,\omega_1 \sum_{m=-\infty}^{\infty} \{\,|A|^2 + |B|^2 + 2\mathrm{Re}(AB)(-1)^m\,\}\,\delta(\omega - m\omega_1/2) \qquad \textit{(34.20)}$$

For A = 1 and B = 0 these become

$$X(\omega) = X_{\mathbf{pulse}}(\omega)\,(1/2)\,\omega_1 \sum_{m=-\infty}^{\infty} \delta(\omega - m\omega_1/2)$$

$$\mathcal{P}(\omega) = \mathcal{P}_{\mathbf{pulse}}(\omega)\,(1/4)\,\omega_1 \sum_{m=-\infty}^{\infty} \delta(\omega - m\omega_1/2)$$

$$X_{\mathbf{pulse}}(\omega) = T_1\,\mathrm{sinc}(\omega T_1/2)$$

$$\mathcal{P}_{\mathbf{pulse}}(\omega) = |X_{\mathbf{pulse}}(\omega)|^2/\,(2\pi T_1) = (1/\omega_1)\,\mathrm{sinc}^2(\omega T_1/2)$$

$$X(\omega) = T_1\,(1/2)\,\omega_1 \sum_{m=-\infty}^{\infty} \mathrm{sinc}(m\pi/2)\delta(\omega - m\omega_1/2)$$

$$\mathcal{P}(\omega) = (1/\omega_1)\,(1/4)\,\omega_1 \sum_{m=-\infty}^{\infty} \mathrm{sinc}^2(m\pi/2)\,\delta(\omega - m\omega_1/2)$$

$$X(\omega) = T_1\,(1/2)\,\omega_1 \sum_{m=\pm\mathrm{odd}} (m\pi/2)^{-1}\delta(\omega - m\omega_1/2) + T_1\,(1/2)\,\omega_1\,\delta(\omega)$$

$$\mathcal{P}(\omega) = (1/\omega_1)\,(1/4)\,\omega_1 \sum_{m=\pm\mathrm{odd}} (m\pi/2)^{-2}\,\delta(\omega - m\omega_1/2) + (1/\omega_1)\,(1/4)\,\omega_1\,\delta(\omega)$$

$$X(\omega) = \pi \sum_{m=\pm\mathrm{odd}} (m\pi/2)^{-1}\delta(\omega - m\omega_1/2) + \pi\,\delta(\omega)$$

$$\mathcal{P}(\omega) = (1/4) \sum_{m=\pm\mathrm{odd}} (m\pi/2)^{-2}\,\delta(\omega - m\omega_1/2) + (1/4)\,\delta(\omega)$$

$$X(\omega) = 2 \sum_{m=\pm\mathrm{odd}} (m)^{-1}\delta(\omega - m\omega_1/2) + \pi\,\delta(\omega)$$

$$\mathcal{P}(\omega) = (1/\pi^2) \sum_{m = \pm odd} (m)^{-2} \; \delta(\omega - m\omega_1/2) + (1/4)\, \delta(\omega)$$