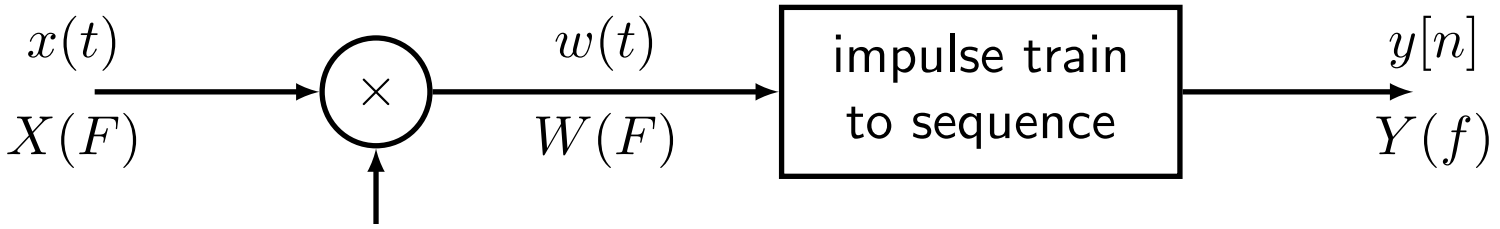
summary

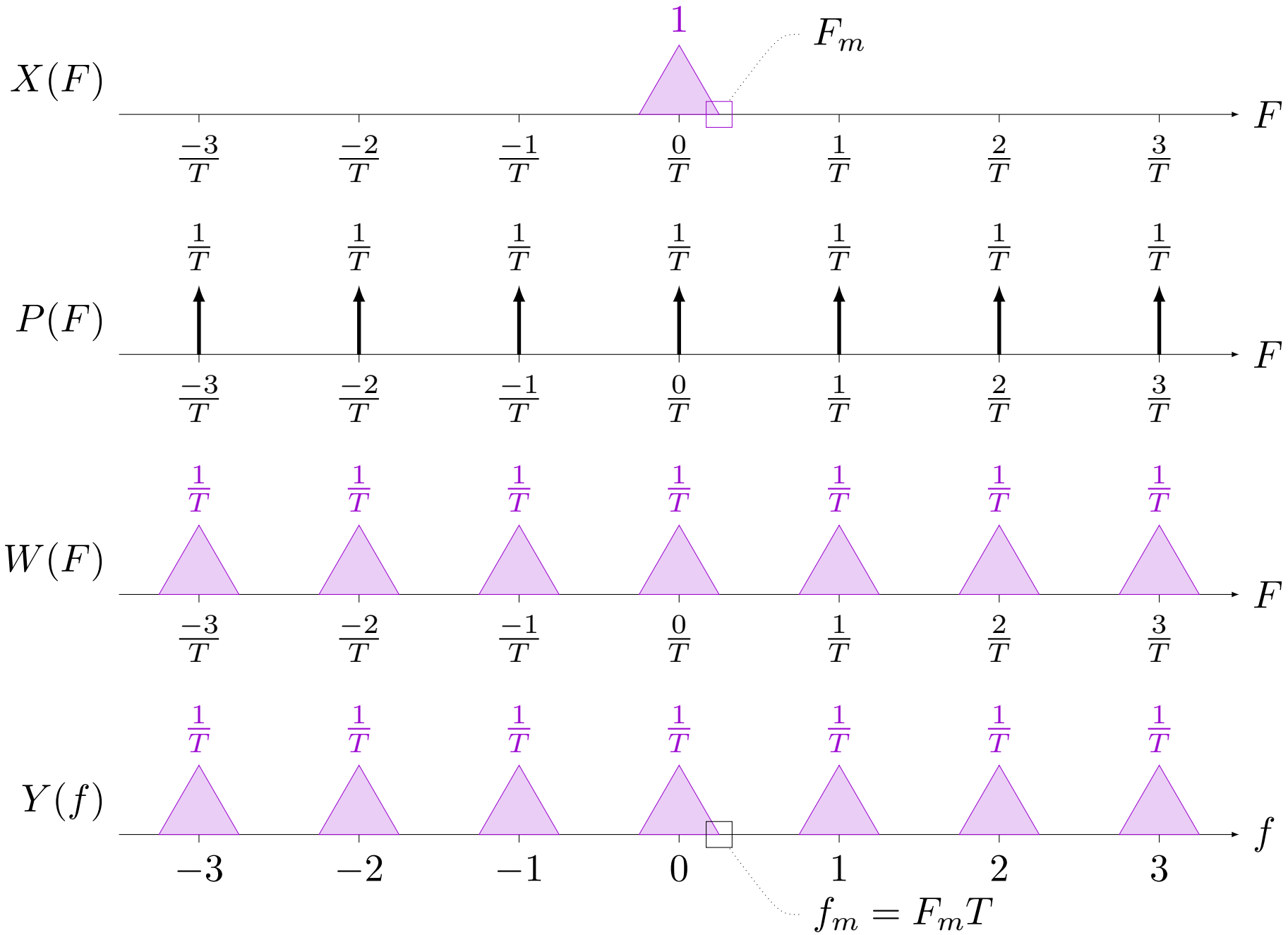


$$p(t) = \sum_{n=-\infty}^{\infty} \delta(t - nT) \quad \longleftrightarrow \quad P(F) = \frac{1}{T} \sum_{k=-\infty}^{\infty} \delta\left(F - \frac{k}{T}\right)$$

aliasing formula: $$W(F) = \frac{1}{T} \sum_{k=-\infty}^{\infty} X\left(F - \frac{k}{T}\right)$$

sampling formula: $$Y(f) = \frac{1}{T} \sum_{k=-\infty}^{\infty} X\left(\frac{f - k}{T}\right)$$

graphical approach



graphical approach