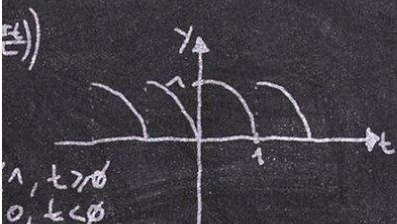


$$\sin(\omega t)$$

$$a(\omega) = \frac{1}{\pi}$$

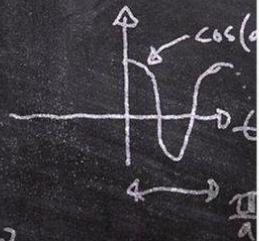
$$C_n = \frac{1}{2L} \int_{-L}^L f(t) e^{-jn\pi t/L} dt \quad b(\omega) = \frac{1}{\pi}$$

$$f(t) = \sum_{n=-\infty}^{\infty} C_n \cdot e^{jn\pi t/L} \quad C(\omega) = \int_{-\infty}^{\infty} f(t)$$



$$f(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty}$$

$$(\omega) + b \cdot \hat{g}(\omega), a, b \in \mathbb{R}$$



$$(\omega) + b(\omega) \cdot \sin(\omega t) d\omega$$

# Integration Testing

- Testing the combined units or modules
- Verifying they work together as expected