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Remembering The Fact That We Introduced A Factor Of i (and Including A Factor Of 2 That Just Crops Up), We Have:
$$\int_{-\infty}^{\infty} f(t) e^{i\omega t} dt = \sum_{n=-\infty}^{\infty} c_n e^{i\omega t}$$

$$c_n = \frac{1}{2\pi} \int_{-\infty}^{\infty} f(t) e^{-i\omega t} dt$$
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