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$f(t)$: even

$F\{f(t)\}$: real $\rightarrow$ cosinusoid

$$\int_{-\infty}^{\infty} f(t) e^{-j2\pi ft} dt$$

$$= \int_0^{\infty} f(t) \cos(2\pi ft) dt$$

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$$A \cos(2\pi n_1 f_1 t)$$

$$B \cos(2\pi n_2 f_2 t)$$

$$C \cos(2\pi n_3 f_3 t)$$

$\vdots$



$f(t)$

