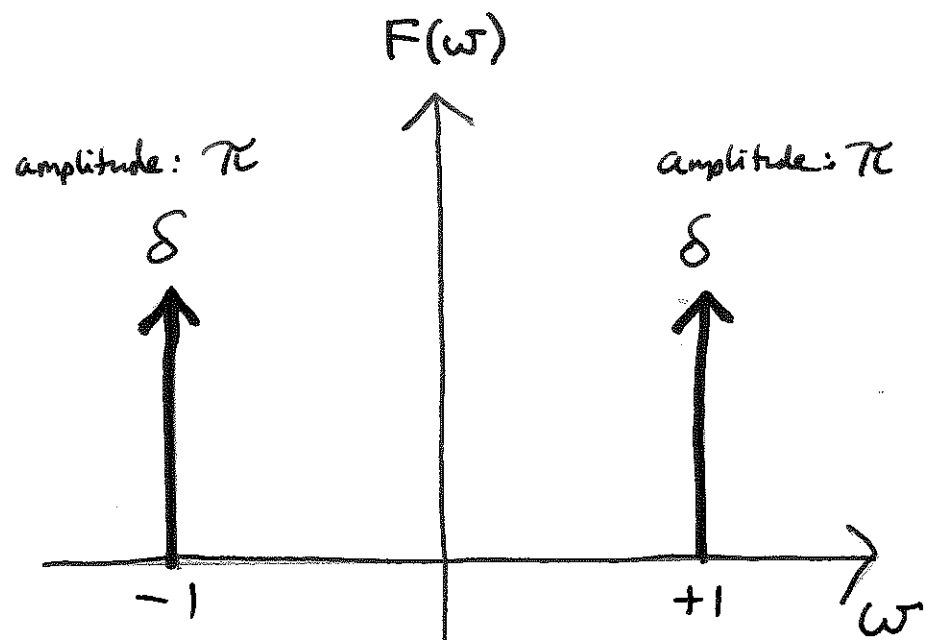


$$f(t) = \cos(t) = \frac{e^{it} + e^{-it}}{2}$$

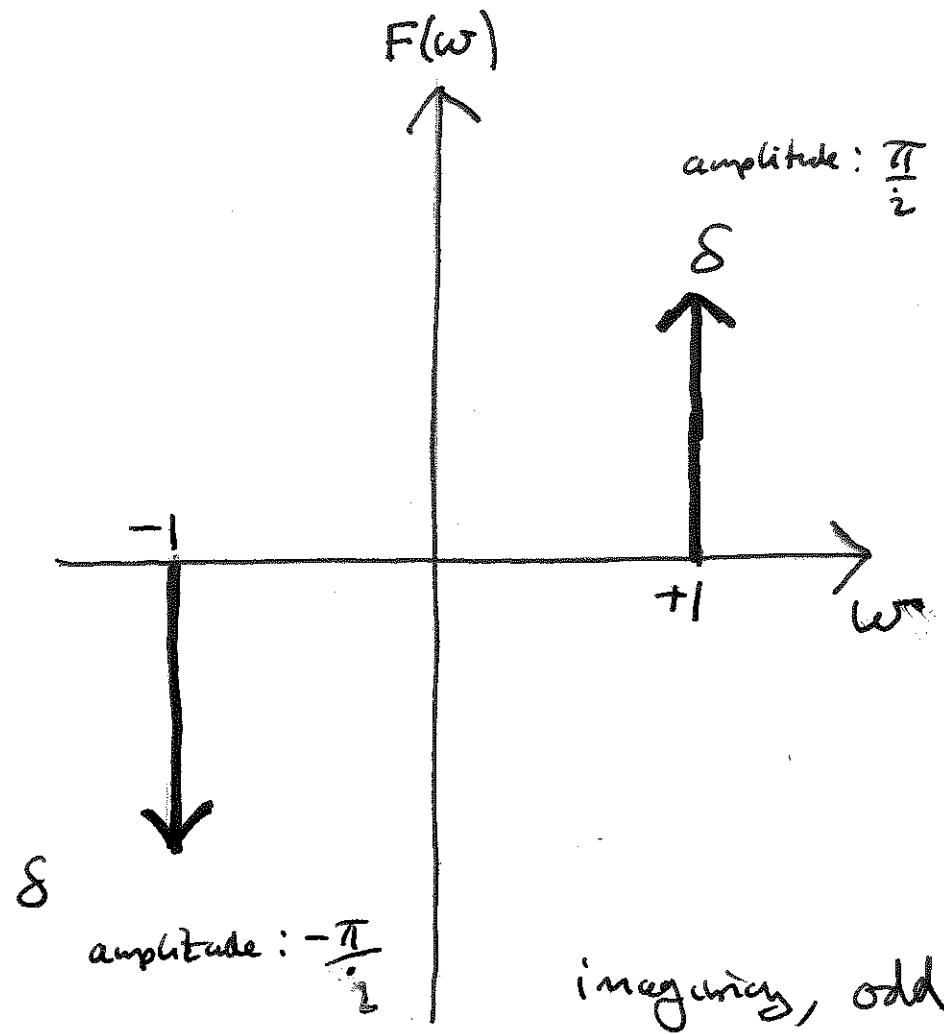
real, even



real, even

$$f(t) = \sin(t) = \frac{e^{it} - e^{-it}}{2i}$$

real, odd



imaginary, odd