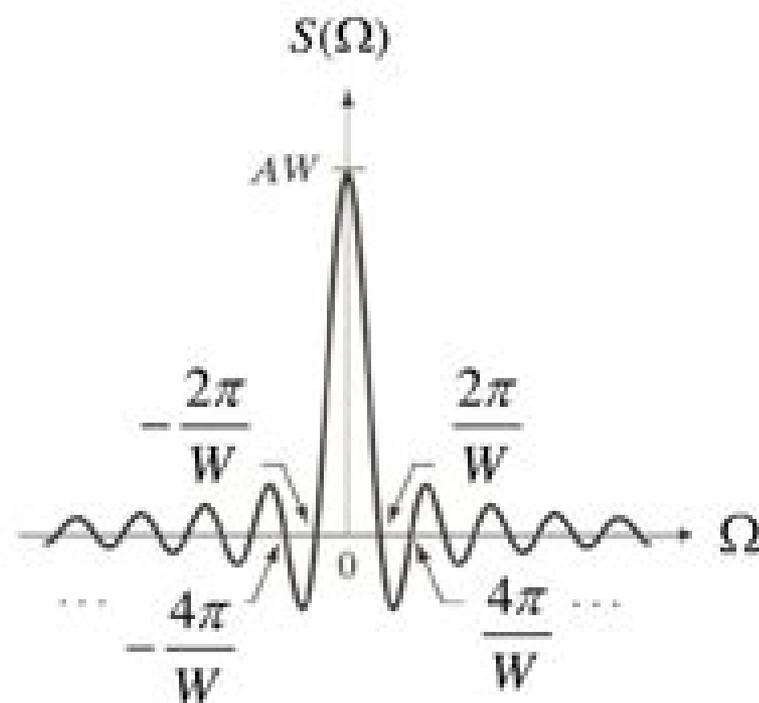


# Fourier Transform Example

$$\begin{aligned}
 S(\Omega) &= \int_{-\infty}^{\infty} s(t)e^{-j\Omega t} dt = \int_{-W/2}^{W/2} Ae^{-j\Omega t} dt = \int_{-W/2}^{W/2} Ae^{-j\Omega t} dt \\
 &= \frac{A}{-j\Omega} \left[ e^{-j\Omega t} \right]_{-W/2}^{W/2} \\
 &= \frac{A}{-j\Omega} \left[ e^{-j\Omega W/2} - e^{j\Omega W/2} \right] \\
 &= \frac{A}{j\Omega} \frac{2W}{2W} \left[ e^{j\Omega W/2} - e^{-j\Omega W/2} \right] \\
 &= \frac{A2W}{\Omega W} \sin(\Omega W/2) \\
 &= AW \frac{\sin(\Omega W/2)}{\Omega W/2} \\
 &= AW \operatorname{sinc}(\Omega W/2\pi)
 \end{aligned}$$



# Fourier Transform Example Problems And Solutions

**AN Whitehead**



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