**A square pulse of height *H* extends from . Find its Fourier transform.**

The given function is called a “rectangle function” and it is defined as $x\left(t\right)= H\* rect\left(\frac{t}{A}\right)$. This function is also called the “unit gate function”.

$$-\frac{A}{2}$$

$$\frac{A}{2}$$

$$H$$