Hello World!

My name is Abdul Muscharkin

Here is an integral:

$$\mathcal{I} = \int_{-\infty}^{+\infty} \frac{\sin x}{x}\,dx = 2\int_{0}^{\infty} \frac{\sin x}{x} = 2\lim_{s\to 0}\int_{s}^{\infty} \mathcal{L}\{\sin x\}(t)\,dt$$

$$= 2\lim_{s\to 0}\int_{s}^{\infty} \frac{1}{t^2+1}\,dt = 2\lim_{s\to 0} \operatorname{arccot} t\Big|_{s}^{\infty}$$

$$= 2\lim_{s\to 0}\left[\frac{\pi}{2} - \operatorname{arccot}(s)\right]$$

$$= 2\,\frac{\pi}{2} - \cancel{\operatorname{arccot}(0)}^{\to 0}$$

$$= \boxed{\pi}$$