

- $\int_{-\infty}^{\infty} \delta(x) dx = 1$
- $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$
- $\int_{-\infty}^{\infty} \delta(x) dx = 1$
- $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$
- $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$
- $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$
- $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$
- $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$

1. $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$

- ❖ $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$ (for $f(x)$ continuous at $x=0$)
- ❖ $\int_{-\infty}^{\infty} \delta(x) f(x) dx = f(0)$ (for $f(x)$ continuous at $x=0$)