

- Even Functions ($f(x) = f(-x)$) (EX $\rightarrow y = \cos x$)

$$\int_{-a}^a f(x) dx = 2 \int_0^a f(x) dx$$

- Odd Functions ($f(x) = -f(-x)$) (EX $\rightarrow y = \sin x$)

$$\int_{-a}^a f(x) dx = 0$$