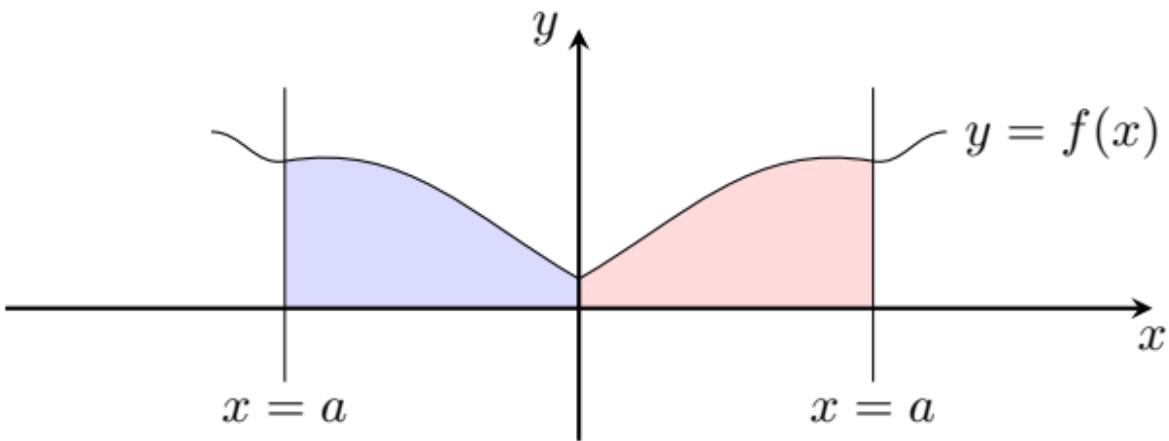


Jos $f(-x) \equiv f(x)$, niin $\int_{-a}^a f(x) dx = 2 \int_0^a f(x) dx$.



$$A = \text{[light blue shaded region]} + \text{[light red shaded region]} = 2 \times \text{[light blue shaded region]}$$