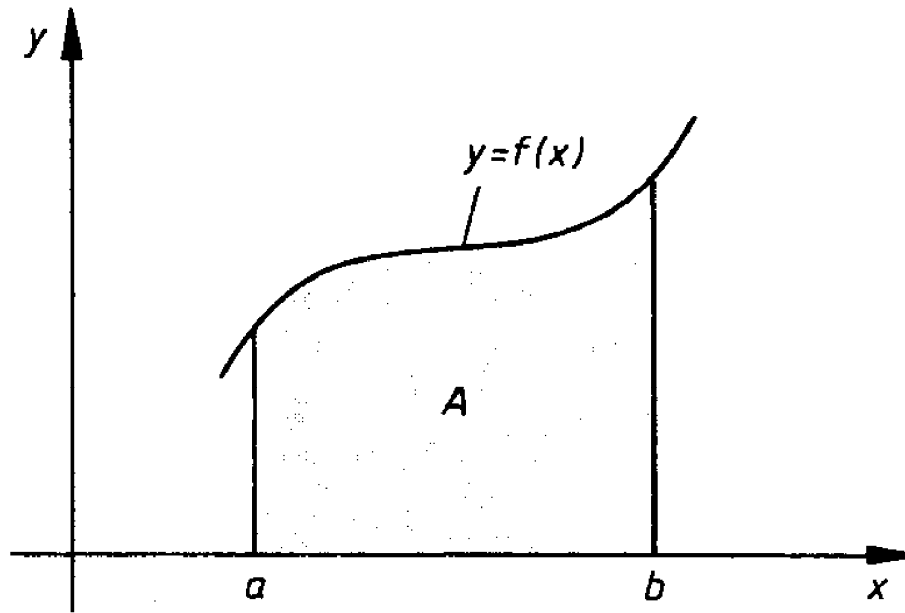
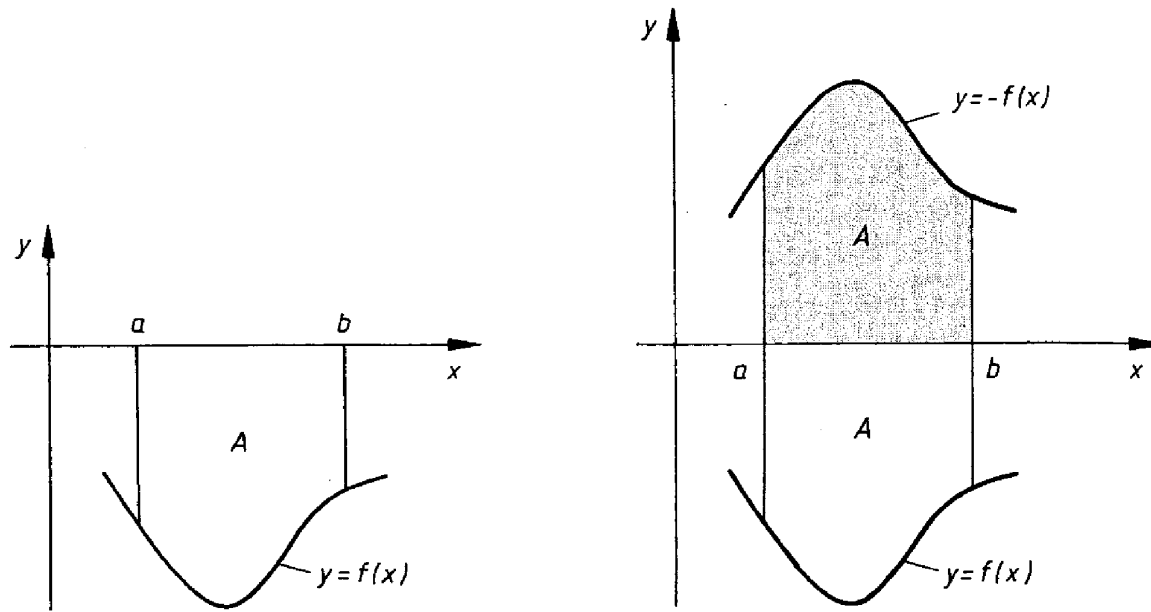


# Flächeninhalt



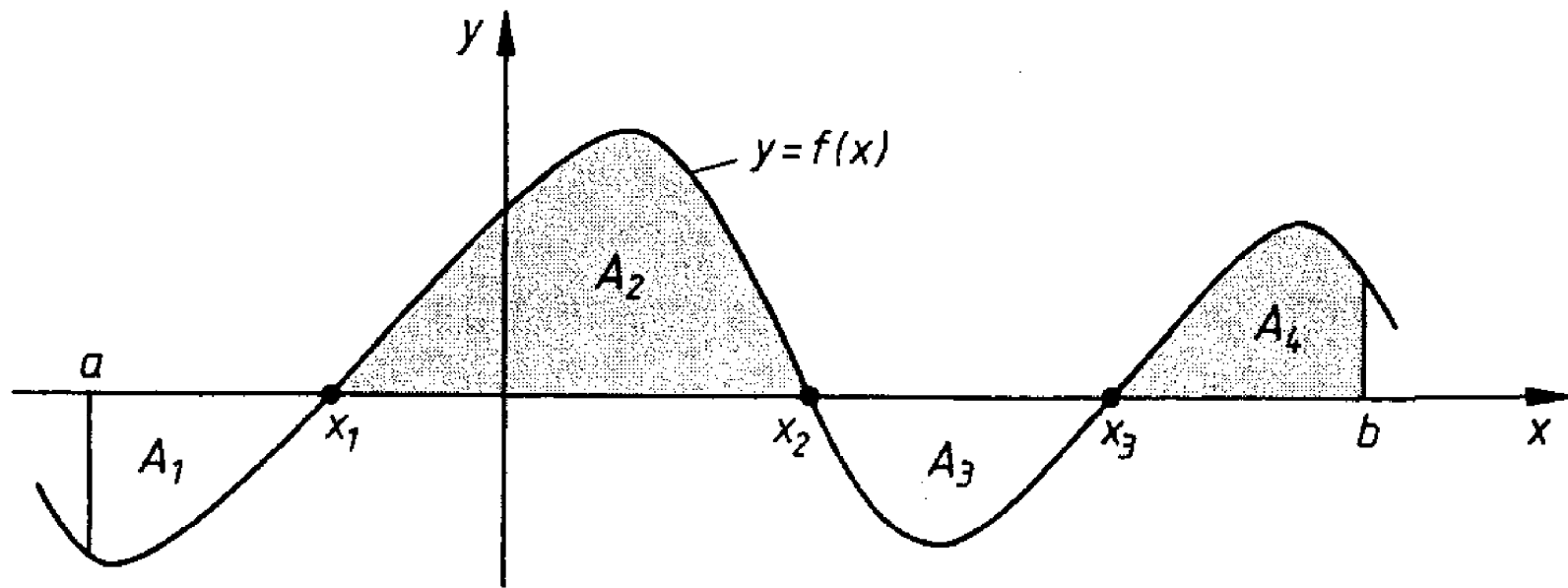
$$A = \int_a^b f(x) dx$$

# Flächeninhalt

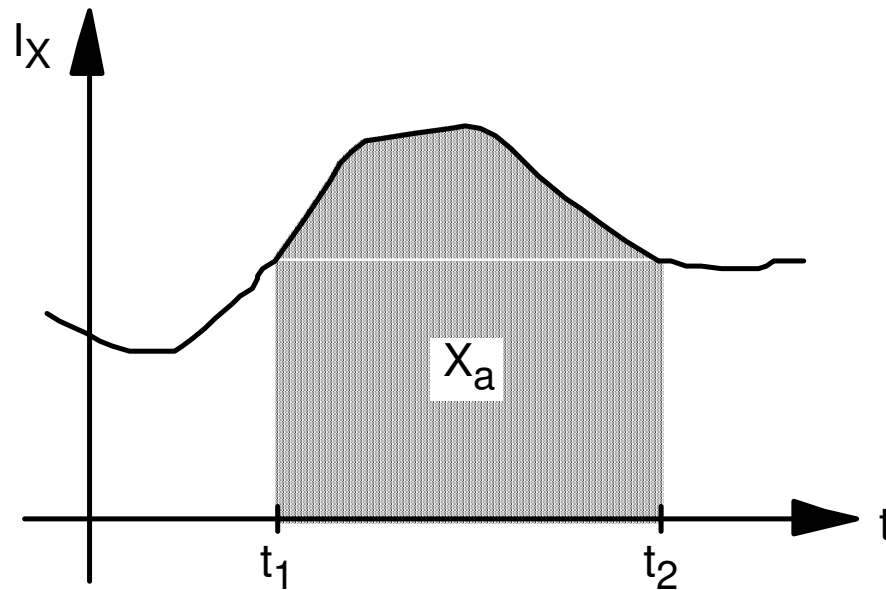


$$A = - \int_a^b f(x) dx$$

# Flächeninhalt

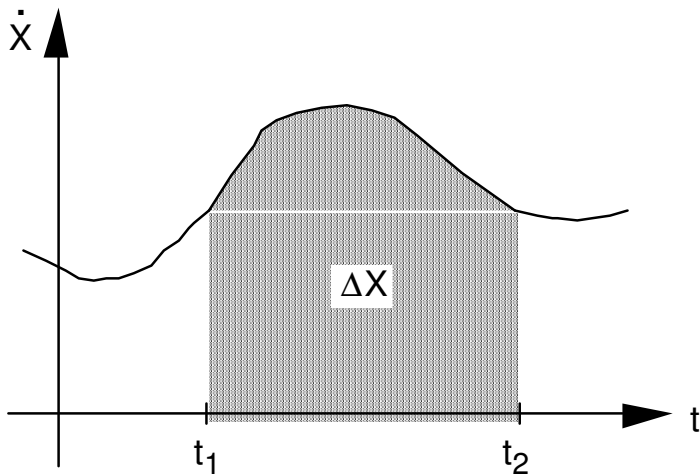


## Stromstärke $I_X \rightarrow$ Transportierte Menge $X_a$



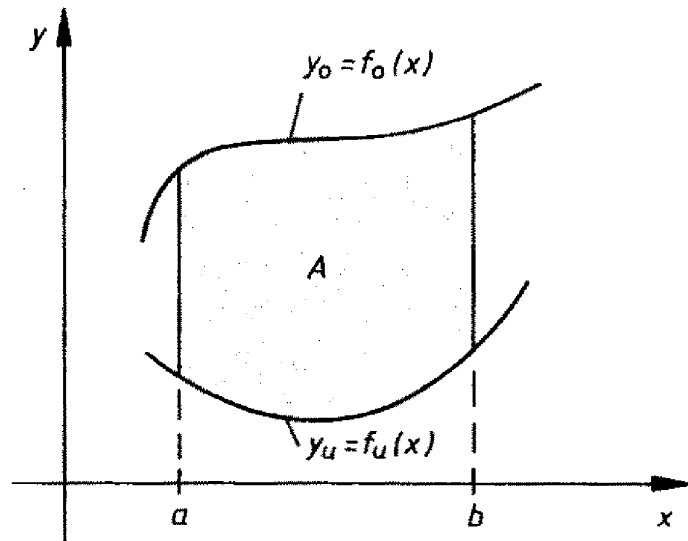
$$X_a = \int_{t_1}^{t_2} I_X(t) dt$$

## Änderungsrate $\dot{X}$ $\rightarrow$ Änderung $\Delta X$



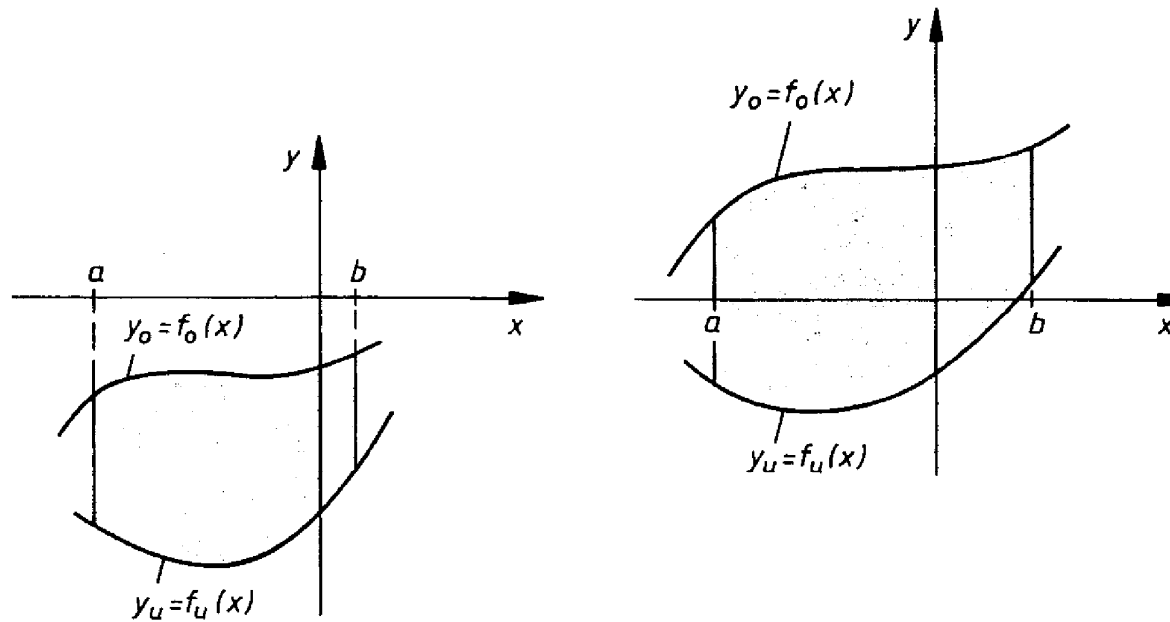
$$\Delta X = X(t_2) - X(t_1) = \int_{t_1}^{t_2} \dot{X}(t) dt$$

## Flächeninhalt zwischen zwei Kurven



$$A = \int_a^b (f_o(x) - f_u(x)) dx$$

## Flächeninhalt zwischen zwei Kurven



$$A = \int_a^b (f_o(x) - f_u(x)) dx$$