

定積分の性質

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$$[1] \int_a^b k f(x) dx = k \int_a^b f(x) dx \quad (k \text{ は定数})$$

$$[2] \int_a^b \{f(x) + g(x)\} dx = \int_a^b f(x) dx + \int_a^b g(x) dx$$

$$[3] \int_a^b \{f(x) - g(x)\} dx = \int_a^b f(x) dx - \int_a^b g(x) dx$$

$$[4] \int_a^a f(x) dx = 0$$

$$[5] \int_b^a f(x) dx = -\int_a^b f(x) dx$$

$$[6] \int_a^c f(x) dx + \int_c^b f(x) dx = \int_a^b f(x) dx$$

$$[7] \frac{d}{dx} \int_a^x f(t) dt = f(x)$$