

### 113. 定積分①

次の定積分を求めよ。

$$(1) \int_0^3 (6x^2 - 8x + 3) dx$$

$$(4) \int_1^3 (9x^2 - 2x^3) dx - \int_2^3 (9x^2 - 2x^3) dx$$

$$(2) \int_{-1}^2 (t^2 - t + 4) dt$$

$$(5) \int_{-3}^3 (4x^3 + 5x^2 - 3x - 6) dx$$

$$(3) \int_{-1}^2 (-2x^2 + x - 3) dx + \int_{-1}^2 (5x^2 + x + 3) dx$$

$$(6) \int_{\alpha}^{\beta} (x - \alpha)(x - \beta) dx$$