

Exercises Evaluation
mathematics

$$1) \int_{-2}^2 x^2 dx = \left. \frac{x^3}{3} \right|_{-2}^2 = \frac{(2)^3}{3} - \frac{(-2)^3}{3} = \frac{8}{3} - \left(-\frac{8}{3}\right) = \frac{16}{3}$$

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$$= A_T - A_P$$

$$= \frac{16}{3} - \frac{16}{3}$$

$$= 0$$

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

$$= (2x^2 + 3)$$

$$= 5^2$$

$$= \int_{-3}^3 (10) dx$$