

不定積分

$$\int \frac{x^2 + 2}{x^2} dx$$

$$= \int \left(\frac{x^2}{x^2} + \frac{2}{x^2} \right) dx$$

$$= \int \left(1 + \frac{2}{x^2} \right) dx$$

$$= \int (1 + 2 \cdot x^{-2}) dx$$

$$= \int 1 dx + \int 2 \cdot x^{-2} dx$$

$$= x + 2 \cdot \frac{x^{-1}}{-1} + C$$

$$= x - 2 \cdot x^{-1} + C$$