

Calculus I

§ Indefinite integral of a polynomial, part 1

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Example

Compute the integral.

$$\begin{aligned}\int (2x^2 - x - 5) dx &= 2 \int x^2 dx - \int x dx - 5 \int dx \\ &= 2 \frac{x^3}{3} - \frac{x^2}{2} - 5x + C\end{aligned}$$