Calculus I
Basic trig integrals, part 1

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Example

Find the indefinite integral.

$$\int (8x^3 - 3\sec^2 x)\mathrm{d}x = 8 \int x^3 \mathrm{d}x - 3 \int \sec^2 x \mathrm{d}x$$

$$= 8\frac{x^4}{4} - 3\tan x + C$$

$$= 2x^4 - 3\tan x + C$$