Calculus I
Basic trig integrals, part 2

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Example

Find the general indefinite integral.
$$\int \frac{\cos\theta}{\sin^2\theta}\mathrm{d}\theta = \int \left(\frac{1}{\sin\theta}\right)\left(\frac{\cos\theta}{\sin\theta}\right)\mathrm{d}\theta$$
$$= \int \csc\theta\,\cot\theta\,\mathrm{d}\theta$$
$$= -\csc\theta + C$$