

A simple article

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$$\int \ln(\sin x) dx = x \ln(e^{2ix} - 1) - (\ln 2)x - \frac{1}{2}i\pi x - \frac{1}{2}ix^2 - i \operatorname{dilog}(e^{ix}) + i \operatorname{dilog}(e^{ix} + 1) + i \ln(e^{ix}) \ln(e^{ix} + 1) + C$$