

5 次の不定積分を求めよ。

(1)  $\int \frac{x}{\sqrt{x^2+1}} dx$

(2)  $\int \frac{1}{x \log x} dx$

(3)  $\int xe^{x^2} dx$

(4)  $\int \sin^5 x \cos x dx$

(5)  $\int \frac{(1+\tan x)^4}{\cos^2 x} dx$

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(1)  $\sqrt{x^2+1}+C$       (2)  $\log(\log x)+C$       (3)  $\frac{1}{2}e^{x^2}+C$

(4)  $\frac{1}{6}\sin^6 x+C$       (5)  $\frac{1}{5}(1+\tan x)^5+C$