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$$\begin{aligned}
 \int \sin^6 x \cos^6 x dx &= \int \sin^6 x \cos^4 x d(\sin x) = \\
 &= \int \sin^6 x (1 - \sin^2 x)^2 d(\sin x) = \\
 &= \int \sin^6 x (1 - 2\sin^2 x + \sin^4 x) d(\sin x) = \\
 &= \int (\sin^6 x - 2\sin^8 x + \sin^{10} x) d(\sin x) = \\
 &= \frac{1}{7} \sin^7 x - \frac{2}{9} \sin^9 x + \frac{1}{11} \sin^{11} x + C
 \end{aligned}$$

\mathbb{R}^2
 \mathbb{R}^2
 \mathbb{R}^2

$H(x, y) = \frac{x^2 y^2}{x^2 + y^2}$

- 1) $g: y \rightarrow \mathbb{R}$
- 2) B_y - база
- 3) $f: x \rightarrow y$
- 4) B_x - база

\mathbb{R}^2

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