

مثالها

مثال) انتگرالهای زیر را محاسبه کنید .

$$29) I = \int (2x-5)^{12} dx$$

$$30) I = \int 2\sqrt[3]{(1-4x)^2} dx$$

$$31) I = \int e^{3x} dx$$

$$32) I = \int 3^x \cdot e^x dx$$

$$33) I = \int \frac{(a^x - b^x)^2}{a^x b^x} dx$$

$$34) I = \int \left(a + \frac{b}{x-a} \right) dx$$

$$35) I = \int \frac{x}{(x+1)^2} dx$$

$$36) I = \int \frac{a^{2x}-1}{\sqrt{a^x}} dx$$

$$37) I = \int \frac{\tan \sqrt{x}}{\sqrt{x}} dx$$

$$38) I = \int \frac{\tan x - \cot gx}{(\tan x + \cot gx)^m} dx$$

$$39) I = \int \frac{1}{x^2} \cdot \sin \frac{2}{x} \cdot \cos^5 \frac{2}{x} dx$$

$$40) I = \int \sin x \cdot (1 + \tan^2 \cos x) \cdot \tan^9 (\cos x) dx$$

$$41) I = \int \frac{x \cdot \cos x^2}{5+7 \sin x^2} dx$$

$$42) I = \int \frac{\sin 2x}{(1 + \cos 2x)^2} dx$$