Find the antiderivative:

$\int 2x(x^2 + 1)^3 \, dx$

Find the antiderivative: $\int e^{4x} \, dx$

Find the antiderivative: $\int \sin(6x) \, dx$

Find the antiderivative: $\int (4x - 3)^4 \, dx$

Find the antiderivative:

$\int 2x(x^2 + 5)^2 \, dx$

Find the antiderivative: $\int e^{2x} \, dx$

Find the antiderivative: $\int \cos(6x) \, dx$

Find the antiderivative: $\int (3x + 4)^2 \, dx$

Integrals by u-Substitution · 2

ANSWER

$$\frac{1}{4}e^{4x} + C$$

Integrals by u-Substitution · 1

ANSWER

$$\frac{1}{4}(x^2 + 1)^4 + C$$

Integrals by u-Substitution · 4

ANSWER

$$\frac{1}{20}(4x - 3)^5 + C$$

Integrals by u-Substitution · 3

ANSWER

$$-\frac{1}{6}\cos(6x) + C$$

Integrals by u-Substitution · 6

ANSWER

$$\frac{1}{2}e^{2x} + C$$

Integrals by u-Substitution · 5

ANSWER

$$\frac{1}{3}(x^2 + 5)^3 + C$$

Integrals by u-Substitution · 8

ANSWER

$$\frac{1}{9}(3x + 4)^3 + C$$

Integrals by u-Substitution · 7

ANSWER

$$\frac{1}{6}\sin(6x) + C$$

Integrals by u-Substitution · 9

Find the antiderivative: $\int e^{5x}\,dx$

Integrals by u-Substitution · 10

Find the antiderivative: $\int \sin(3x)\,dx$

Integrals by u-Substitution · 11

Find the antiderivative: $\int (2x + 5)^4\,dx$

Integrals by u-Substitution · 12

Find the antiderivative: $\int 2x(x^2 + 3)^3\,dx$

Integrals by u-Substitution · 13

Find the antiderivative: $\int \cos(3x)\,dx$

Integrals by u-Substitution · 14

Find the antiderivative: $\int (5x - 2)^2\,dx$

Integrals by u-Substitution · 15

Find the antiderivative: $\int 6x(x^2 + 1)^4\,dx$

Integrals by u-Substitution · 16

Find the antiderivative: $\int (2x - 3)^6\,dx$

Integrals by u-Substitution · 10

ANSWER

$$-\left(\frac{1}{3}\right)\cos(3x) + C$$

Integrals by u-Substitution · 9

ANSWER

$$\left(\frac{1}{5}\right)e^{5x} + C$$

Integrals by u-Substitution · 12

ANSWER

$$\left(\frac{1}{4}\right)(x^2 + 3)^4 + C$$

Integrals by u-Substitution · 11

ANSWER

$$\left(\frac{1}{10}\right)(2x + 5)^5 + C$$

Integrals by u-Substitution · 14

ANSWER

$$\left(\frac{1}{15}\right)(5x - 2)^3 + C$$

Integrals by u-Substitution · 13

ANSWER

$$\left(\frac{1}{3}\right)\sin(3x) + C$$

Integrals by u-Substitution · 16

ANSWER

$$\left(\frac{1}{14}\right)(2x - 3)^7 + C$$

Integrals by u-Substitution · 15

ANSWER

$$\left(\frac{3}{5}\right)(x^2 + 1)^5 + C$$

Find the antiderivative: $\int 2e^{3x}\,dx$

Find the antiderivative: $\int 4\sin(6x)\,dx$

Evaluate the definite integral $\int$ from 0 to 2 of $2x(x^2 + 2)\,dx$.

Find the antiderivative: $\int x^2 e^{x^3}\,dx$

Find the antiderivative: $\int 6x^2(x^3 + 5)^4\,dx$

Evaluate the definite integral $\int$ from 0 to 1 of $(2x - 2)^3\,dx$.

Find the antiderivative: $\int 2x(x^2 + 2)^3\,dx$

Find the antiderivative: $\int \sin(5x)\,dx$

Integrals by u-Substitution · 18

ANSWER

$$-\left(\frac{2}{3}\right)\cos(6x) + C$$

Integrals by u-Substitution · 17

ANSWER

$$\left(\frac{2}{3}\right)e^{3x} + C$$

Integrals by u-Substitution · 20

ANSWER

$$\left(\frac{1}{3}\right)e^{x^3} + C$$

Integrals by u-Substitution · 19

ANSWER

$$16$$

Integrals by u-Substitution · 22

ANSWER

$$-2$$

Integrals by u-Substitution · 21

ANSWER

$$\left(\frac{2}{5}\right)(x^3 + 5)^5 + C$$

Integrals by u-Substitution · 24

ANSWER

$$-\left(\frac{1}{5}\right)\cos(5x) + C$$

Integrals by u-Substitution · 23

ANSWER

$$\left(\frac{1}{4}\right)(x^2 + 2)^4 + C$$