Integrals by u-Substitution · 1

Find the antiderivative:

$\int 8x^2(x^3 + 2)^3 \, dx$

Integrals by u-Substitution · 2

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

Integrals by u-Substitution · 3

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

Integrals by u-Substitution · 4

Evaluate the definite integral $\int$ from 0 to $\pi/8$ of $2\cos(4x) \, dx$.

Integrals by u-Substitution · 5

Find the antiderivative: $\int 6x \, e^{x^2} \, dx$

Integrals by u-Substitution · 6

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

Integrals by u-Substitution · 7

Evaluate the definite integral $\int$ from 0 to 1 of $6x(x^2 + 2)^3 \, dx$.

Integrals by u-Substitution · 8

Find the antiderivative:

$\int 4x(x^2 - 4)^2 \, dx$

Integrals by u-Substitution · 2

ANSWER

$$2\sin(x^2) + C$$

Integrals by u-Substitution · 1

ANSWER

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

Integrals by u-Substitution · 4

ANSWER

$$\frac{1}{2}$$

Integrals by u-Substitution · 3

ANSWER

$$\frac{65}{8}$$

Integrals by u-Substitution · 6

ANSWER

$$10$$

Integrals by u-Substitution · 5

ANSWER

$$3e^{x^2} + C$$

Integrals by u-Substitution · 8

ANSWER

$$\frac{2}{3}(x^2 - 4)^3 + C$$

Integrals by u-Substitution · 7

ANSWER

$$\frac{195}{4}$$

Find the antiderivative: $\int 10x(x^2 - 2)^4\,dx$

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

Evaluate the definite integral $\int$ from 0 to $\pi/8$ of $3\cos(4x)\,dx$.

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

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

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

Find the antiderivative: $\int 10x^2(x^3 - 4)^5\,dx$

Find the antiderivative: $\int 12x(x^2 - 1)^2\,dx$

Integrals by u-Substitution · 10

ANSWER

$$20$$

Integrals by u-Substitution · 9

ANSWER

$$(x^2 - 2)^5 + C$$

Integrals by u-Substitution · 12

ANSWER

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

Integrals by u-Substitution · 11

ANSWER

$$\frac{3}{4}$$

Integrals by u-Substitution · 14

ANSWER

$$\frac{5}{2}$$

Integrals by u-Substitution · 13

ANSWER

$$10$$

Integrals by u-Substitution · 16

ANSWER

$$2(x^2 - 1)^3 + C$$

Integrals by u-Substitution · 15

ANSWER

$$\frac{5}{9}(x^3 - 4)^6 + C$$

Integrals by u-Substitution · 17

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

Integrals by u-Substitution · 18

Evaluate the definite integral $\int$ from 0 to 1 of $4x(x^2 + 3)\,dx$.

Integrals by u-Substitution · 19

Evaluate the definite integral $\int$ from 0 to $\pi/8$ of $2\sin(4x)\,dx$.

Integrals by u-Substitution · 20

Find the antiderivative: $\int 4x^2 e^{x^3}\,dx$

Integrals by u-Substitution · 21

Evaluate the definite integral $\int$ from 0 to 2 of $(2x - 4)^2\,dx$.

Integrals by u-Substitution · 22

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

Integrals by u-Substitution · 23

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

Integrals by u-Substitution · 24

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

Integrals by u-Substitution · 18

ANSWER

$$7$$

Integrals by u-Substitution · 17

ANSWER

$$\sin(x^3) + C$$

Integrals by u-Substitution · 20

ANSWER

$$\frac{4}{3}e^{x^3} + C$$

Integrals by u-Substitution · 19

ANSWER

$$\frac{1}{2}$$

Integrals by u-Substitution · 22

ANSWER

$$\frac{93}{2}$$

Integrals by u-Substitution · 21

ANSWER

$$\frac{32}{3}$$

Integrals by u-Substitution · 24

ANSWER

$$\frac{1}{2}(x^2 + 5)^4 + C$$

Integrals by u-Substitution · 23

ANSWER

$$\frac{1}{5}(x^2 + 4)^5 + C$$