Integrals by u-Substitution · 1

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

Integrals by u-Substitution · 2

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

Integrals by u-Substitution · 3

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

Integrals by u-Substitution · 4

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

Integrals by u-Substitution · 5

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

Integrals by u-Substitution · 6

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

Integrals by u-Substitution · 7

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

Integrals by u-Substitution · 8

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

Integrals by u-Substitution · 2

ANSWER

$$\frac{1}{21}(3x - 4)^7 + C$$

Integrals by u-Substitution · 1

ANSWER

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

Integrals by u-Substitution · 4

ANSWER

$$\frac{2}{3}\sin(6x) + C$$

Integrals by u-Substitution · 3

ANSWER

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

Integrals by u-Substitution · 6

ANSWER

$$\frac{1}{3}e^{x^3} + C$$

Integrals by u-Substitution · 5

ANSWER

$$316$$

Integrals by u-Substitution · 8

ANSWER

$$0$$

Integrals by u-Substitution · 7

ANSWER

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

Find the antiderivative: $\int 8x^2(x^3 - 2)^2\,dx$

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

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

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

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

Evaluate the definite integral $\int$ from 0 to $\pi/6$ of $2\sin(3x)\,dx$.

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

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

Integrals by u-Substitution · 10

ANSWER

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

Integrals by u-Substitution · 9

ANSWER

$$\frac{8}{9}(x^3 - 2)^3 + C$$

Integrals by u-Substitution · 12

ANSWER

$$156$$

Integrals by u-Substitution · 11

ANSWER

$$-2\cos(x^2) + C$$

Integrals by u-Substitution · 14

ANSWER

$$\frac{2}{3}$$

Integrals by u-Substitution · 13

ANSWER

$$-10$$

Integrals by u-Substitution · 16

ANSWER

$$e^{4x} + C$$

Integrals by u-Substitution · 15

ANSWER

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

Integrals by u-Substitution · 17

Find the antiderivative: $\int 4x(x^2 + 1)^5 \, dx$

Integrals by u-Substitution · 18

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

Integrals by u-Substitution · 19

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

Integrals by u-Substitution · 20

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

Integrals by u-Substitution · 21

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

Integrals by u-Substitution · 22

Evaluate the definite integral $\int$ from 0 to $\pi/6$ of $6\sin(2x) \, dx$.

Integrals by u-Substitution · 23

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

Integrals by u-Substitution · 24

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

Integrals by u-Substitution · 18

ANSWER

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

Integrals by u-Substitution · 17

ANSWER

$$\frac{1}{(3)}(x^2 + 1)^6 + C$$

Integrals by u-Substitution · 20

ANSWER

$$\frac{33}{2}$$

Integrals by u-Substitution · 19

ANSWER

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

Integrals by u-Substitution · 22

ANSWER

$$\frac{3}{2}$$

Integrals by u-Substitution · 21

ANSWER

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

Integrals by u-Substitution · 24

ANSWER

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

Integrals by u-Substitution · 23

ANSWER

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