

$$5x^{3-1} = 3x^2$$

$$2x^{2-1} = 4x$$

$$3x^{3-1} = 9x^2$$

## Integrales

$$\int x^n dx = \frac{x^{n+1}}{n+1}$$

$$\int x^2 dx = \frac{x^{2+1}}{2+1} = \frac{x^3}{3} + C$$

$$x^2 + 5 = 2x$$

Integrar una constante:

$$\int 4 dx = 4x + C$$

$$5 = 5x + C$$

$$10 = 10x + C$$

$$4x = \int 4x dx = 4 \int x dx = 4 \frac{x^{1+1}}{1+1} + C = 4 \frac{x^2}{2} + C$$

Ejercicios:

$$\int x^3 dx = \frac{x^{3+1}}{3+1} + C = \frac{x^4}{4} + C$$

$$\int x^7 dx = \frac{x^{7+1}}{7+1} + C = \frac{x^8}{8} + C$$

$$\int t^4 dt = \frac{t^{4+1}}{4+1} + C = \frac{t^5}{5} + C$$

$$\int x^{-3} dx = \frac{x^{(-3)+1}}{-3+1} + C = \frac{x^{-2}}{-2} + C = -\frac{1}{2x^2} + C$$

$$\int x^{-1} dx = \frac{x^{-1+1}}{-1+1} + C = \ln x + C$$

$$\int x^5 dx = \frac{x^{5+1}}{5+1} + C = \frac{x^6}{6} + C$$

$$\int x^7 dx = \frac{x^{7+1}}{7+1} + C = \frac{x^8}{8} + C$$

$$\int x^{10} dx = \frac{x^{10+1}}{10+1} + C = \frac{x^{11}}{11} + C$$

$$\int x^{15} dx = \frac{x^{15+1}}{15+1} + C = \frac{x^{16}}{16} + C$$

$$\int x^3 dx = \frac{x^{3+1}}{3+1} + C = \frac{x^4}{4} + C$$

$$\int x^{-5} dx = \frac{x^{-5+1}}{-5+1} + C = \frac{x^{-4}}{-4} + C = -\frac{1}{4x^4} + C$$

$$\int x^{-7} dx = \frac{x^{-7+1}}{-7+1} + C = \frac{x^{-6}}{-6} + C = -\frac{1}{6x^6} + C$$

$$\int x^{-9} dx = \frac{x^{-9+1}}{-9+1} + C = \frac{x^{-8}}{-8} + C = -\frac{1}{8x^8} + C$$

$$\int x^{-15} dx = \frac{x^{-15+1}}{-15+1} + C = \frac{x^{-14}}{-14} + C = -\frac{1}{14x^{14}} + C$$

$$\int x^{-20} dx = \frac{x^{-20+1}}{-20+1} + C = \frac{x^{-19}}{-19} + C = -\frac{1}{19x^{19}} + C$$

$$\int x^{-11} dx = \frac{x^{-11+1}}{-11+1} + C = \frac{x^{-10}}{-10} + C = -\frac{1}{10x^{10}} + C$$

primeros ejercicios.

2dos ejercicios

$$\int x^n = \frac{x^{n+1}}{n+1} + C$$

$$\int x^{15} dx = \frac{x^{15+1}}{15+1} + C = \frac{x^{16}}{16} + C$$

$$\int x^{-3} dx = \frac{x^{-3+1}}{-3+1} + C = \frac{x^{-2}}{-2} + C = -\frac{1}{2x^2} + C$$

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$$\int x^{-13} dx = \frac{x^{-13+1}}{-13+1} + C = \frac{x^{-12}}{-12} + C = -\frac{1}{12x^{12}} + C$$

$$\int x^{-6} dx = \frac{x^{-6+1}}{-6+1} + C = \frac{x^{-5}}{-5} + C = -\frac{1}{5x^5} + C$$