

Elementary Math

Данный раздел онлайн сервиса ориентирован на простейшую математику, например:

- Обычная арифметика
- Нахождение квадратных корней
- Работа с дробями
- Действия с процентами
- Стандартные задачи

Данный раздел позволяет выполнять простейшие математические действия описанные сверху, например умножение дроби на дробь, найти квадратный корень числа.

Например сложение чисел:

The screenshot shows the WolframAlpha interface. In the search bar at the top, the query "125 + 375" is entered. Below the search bar is a toolbar with various mathematical operators like square root, derivative, integral, and summation. A "POPULAR" button is also present. The main results section shows the input "125 + 375", the result "500", and a "Number line" diagram where two points on a horizontal axis are connected by a curved arrow labeled "125" and "375" respectively, both pointing to the right towards the number "500". To the right of the results is a promotional banner for WolframAlpha with the text "DISCOVER WHAT'S POSSIBLE with WolframAlpha" and a "Take the Tour" button.

Нахождение квадратного корня:

The screenshot shows the WolframAlpha interface. In the search bar at the top, the query "sqrt 1801" is entered. Below the search bar is a toolbar with "NATURAL LANGUAGE" and "MATH INPUT" buttons, along with links for "EXTENDED KEYBOARD", "EXAMPLES", "UPLOAD", and "RANDOM". The main results section shows the input "sqrt 1801", the decimal approximation "42.438190347845889268642669714556421791841339733759879410828113574", and a "Number line" diagram. To the right of the results is a promotional banner for WolframAlpha with the text "DISCOVER WHAT'S POSSIBLE with WolframAlpha" and a "Take the Tour" button.

Нахождение процента от числа:

The screenshot shows the WolframAlpha search interface. At the top, there is a red logo with a starburst icon followed by the text "WolframAlpha" and the tagline "computational intelligence.". Below the logo is a search bar containing the text "30% of 30". To the right of the search bar is a small orange square button with a white equals sign. Underneath the search bar are several navigation buttons: "NATURAL LANGUAGE", "MATH INPUT" (with a mathematical symbol icon), "EXTENDED KEYBOARD", "EXAMPLES", "UPLOAD", and "RANDOM". The main results area has a light gray background and contains the following information:

- Input interpretation: $30 \times 30\%$
- Result: 9
- Number name: nine
- Number line: A small visual representation of a number line with a point marked at 9.

Геометрия

Данный раздел онлайн сервиса ориентирован на геометрию, например:

- Обычную 2х мерную геометрию
- 3д геометрию
- Геометрию поверхностей и изгибов
- Многомерную геометрию

Например построение треугольника по его сторонам:



5, 12, 13 triangle

NATURAL LANGUAGE

MATH INPUT

EXTENDED KEYBOARD

EXAMPLES

UPLOAD

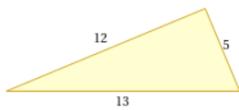
RANDOM

Assuming "triangle" is a geometric object | Use as a unit instead

Input interpretation

triangle edge lengths 5 | 12 | 13

Visual representation



Triangle shape

right triangle

Properties

More

Step-by-step solution

Например построение сферы по радиусу:

sphere, surface area=1

NATURAL LANGUAGE

MATH INPUT

EXTENDED KEYBOARD

EXAMPLES

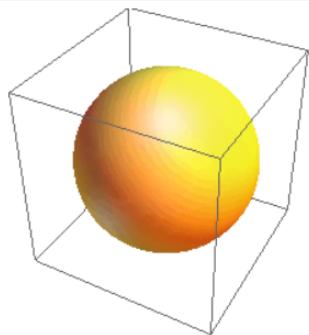
UPLOAD

RANDOM

Input interpretation

sphere surface area 1

Visual representation



Equation

$$(x - x_0)^2 + (y - y_0)^2 + (z - z_0)^2 = \frac{1}{4\pi}$$

(assuming center (x_0, y_0, z_0))

Properties

More

Step-by-step solution

radius

$$\frac{1}{2\sqrt{\pi}} \approx 0.282095$$

Например построение тессеракта:

faces	24
cells	8

Properties

More

content	s^4
hyper-surface area	$8 s^3$

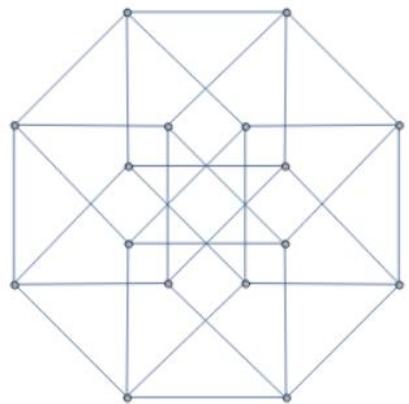
(assuming edge length s)

Schl fli symbol

{4, 3, 3}

Skeleton graph

tesseract graph



Dual polytope

16-cell (polytope in 4-dimensional space)

POWERED BY THE WOLFRAM LANGUAGE

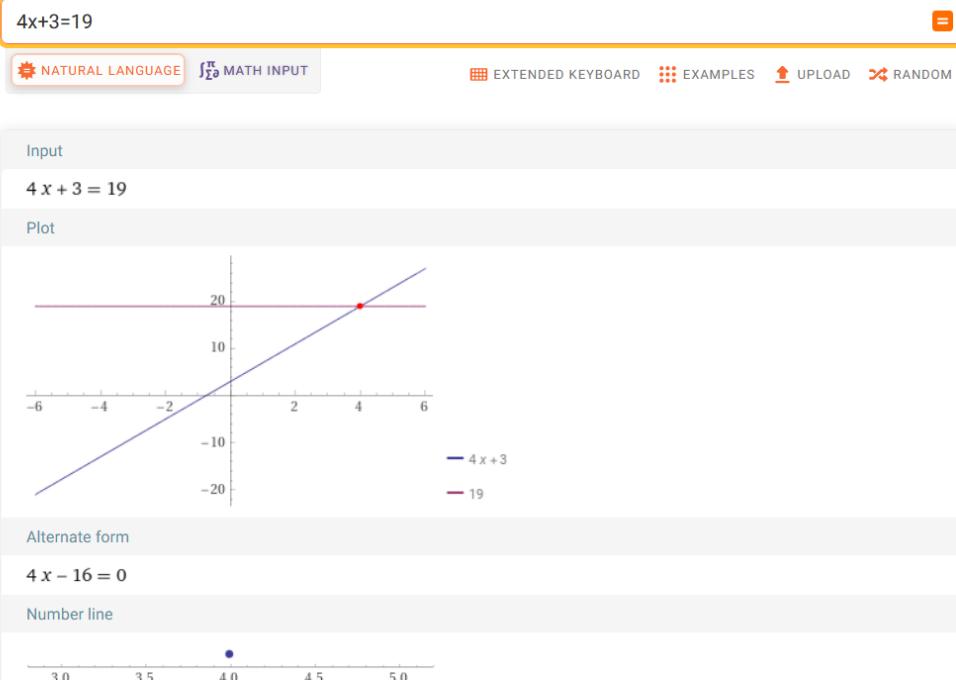
Алгебра

Данный раздел онлайн сервиса ориентирован на простейшую алгебру, например:

- решение уравнений
- решение многочленов
- рациональные функции
- упрощения

И т.д

Например решение уравнения:



Например решение многочлена:



$x^3 + x^2 y + x y^2 + y^3$

NATURAL LANGUAGE

MATH INPUT

EXTENDED KEYBOARD

EXAMPLES

UPLOAD

RANDOM

Input

$$x^3 + x^2 y + x y^2 + y^3$$

Alternate forms

More forms

Step-by-step solution

$$(x + y)(x^2 + y^2)$$

$$x(x(x + y) + y^2) + y^3$$

$$x^3 + y(x^2 + y(x + y))$$

Real root

$$y = -x$$

Roots

Step-by-step solution

$$y = -x$$

$$y = -ix$$

$$y = ix$$

Integer root

Например упрощение:

$1/(1+\sqrt{2})$

NATURAL LANGUAGE

MATH INPUT

EXTENDED KEYBOARD

EXAMPLES

UPLOAD

RANDOM

Input

$$\frac{1}{1 + \sqrt{2}}$$

Decimal approximation

More digits

0.4142135623730950488016887242096980785696718753769480731766797379

...

Alternate form

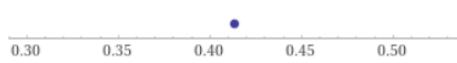
Step-by-step solution

$$\sqrt{2} - 1$$

Minimal polynomial

$$x^2 + 2x - 1$$

Number line



Continued fraction

Fraction form

