

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:

The screenshot shows the WolframAlpha interface. In the search bar, the query "5, 12, 13 triangle" is entered. Below the search bar, there are tabs for "NATURAL LANGUAGE" and "MATH INPUT". To the right, there are buttons for "EXTENDED KEYBOARD", "EXAMPLES", "UPLOAD", and "RANDOM". A message box says "Assuming 'triangle' is a geometric object | Use as a unit instead". The main area shows the "Input interpretation" section with a button for "triangle edge lengths 5 | 12 | 13". Below it is the "Visual representation" section, which displays a yellow right-angled triangle with sides labeled 5, 12, and 13. The "Triangle shape" section below it identifies it as a "right triangle". At the bottom, there are "More" and "Show solution" buttons.

Например построение сферы по радиусу:

sphere, surface area=1

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NATURAL LANGUAGE

MATH INPUT

EXTENDED KEYBOARD

EXAMPLES

UPLOAD

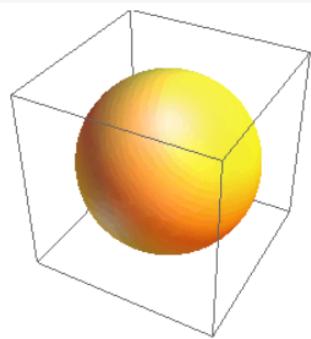
RANDOM

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	$\frac{1}{2\sqrt{\pi}} \approx 0.282095$
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Например построение тессеракта:

faces	24
cells	8

Properties

[More](#)

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

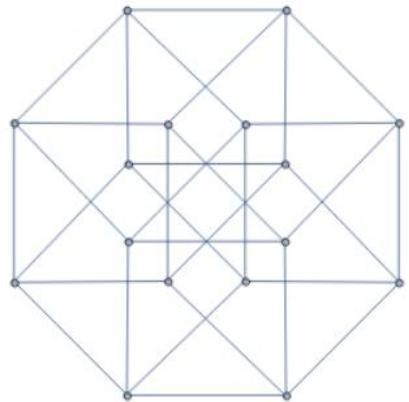
(assuming edge length s)

Schläfli symbol

{4, 3, 3}

Skeleton graph

tesseract graph



Dual polytope

16-cell (polytope in 4-dimensional space)