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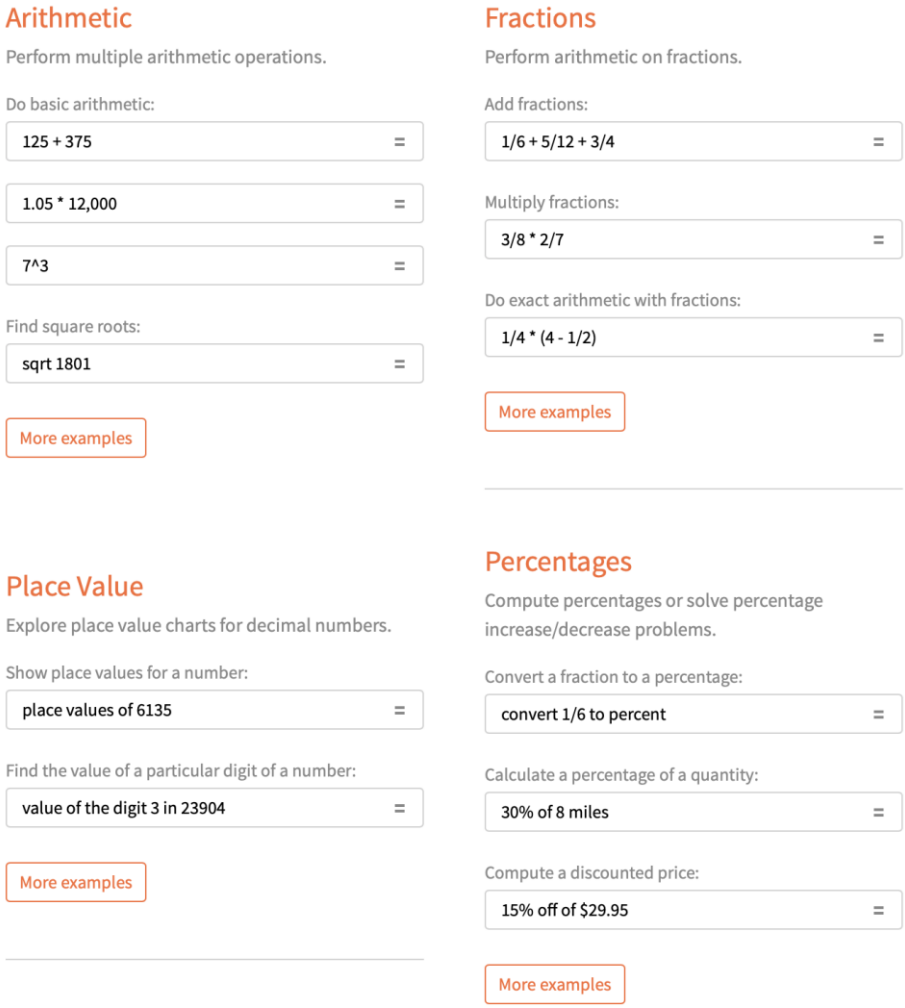
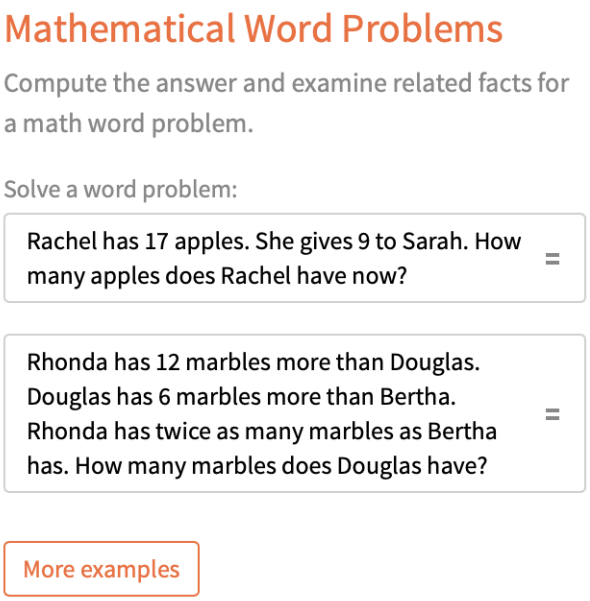
ВСР 2.3

Elementary Math

Основными операциями в данном разделе являются простые математические преобразования над числами и основные математические действия.

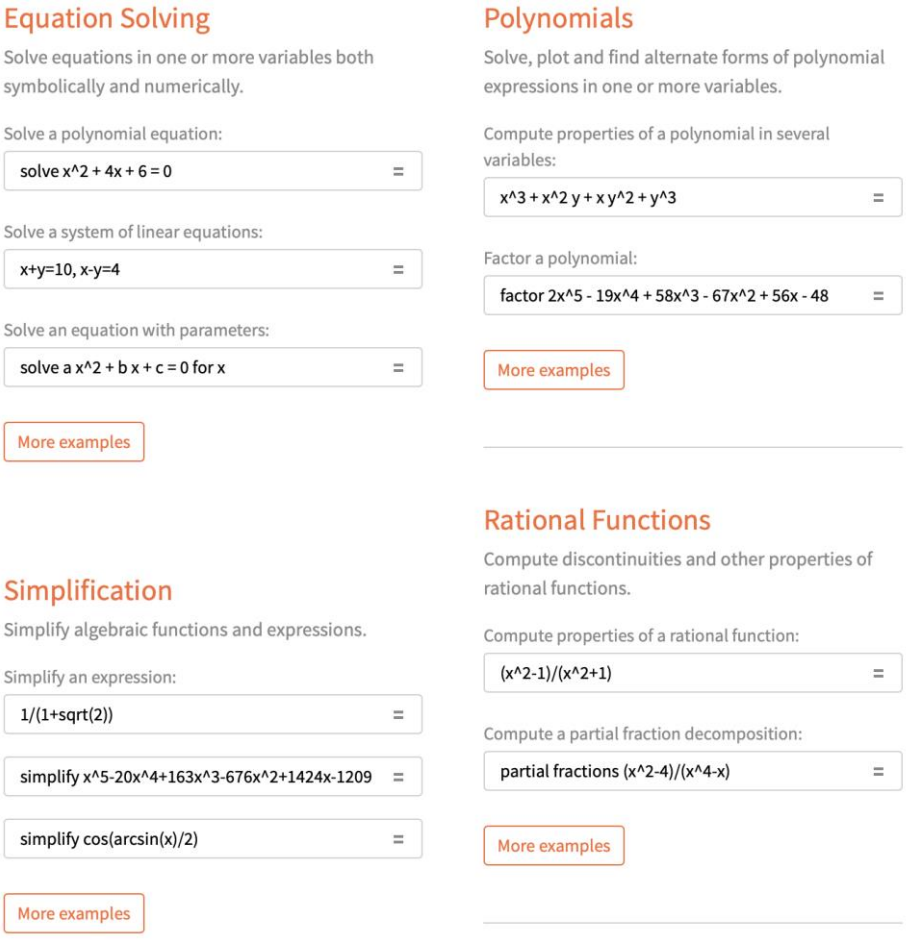


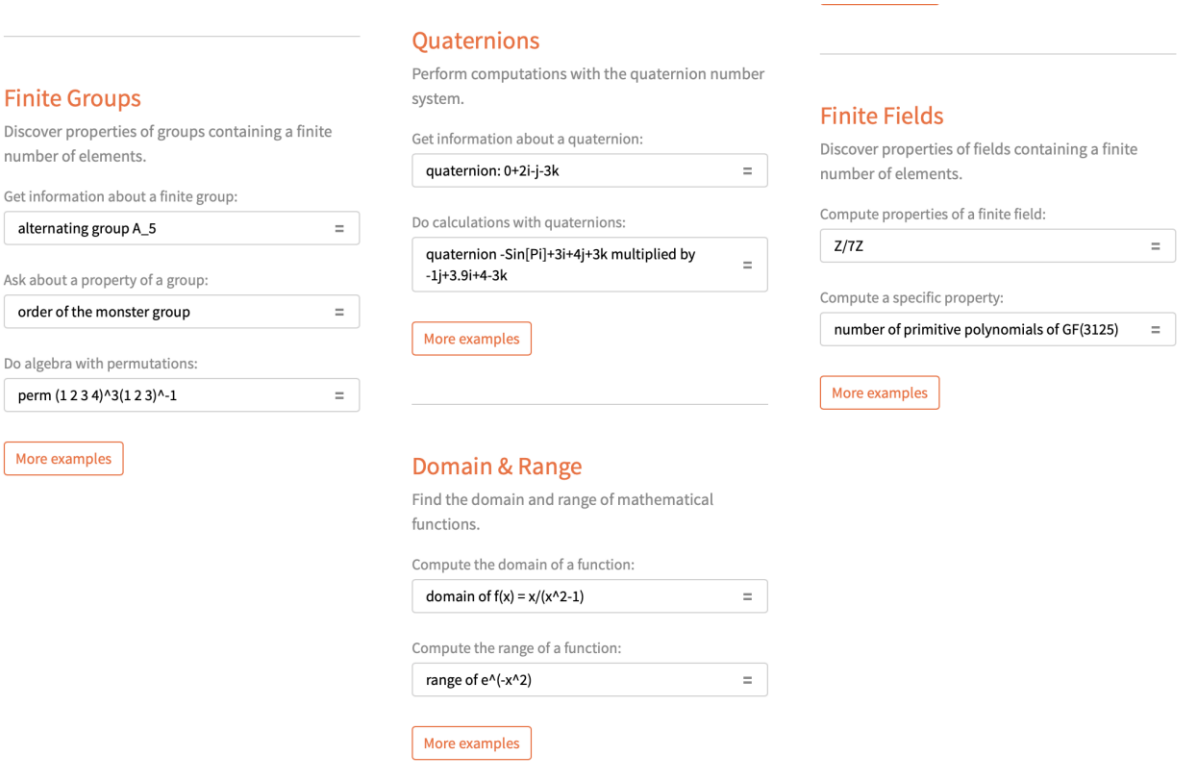
Также существует возможность решать простые математические задачи заданные текстом:



Algebra

Данный раздел позволяет решать многочисленные алгебраические задания, например вычисление рациональных функций, преобразование выражений, матрицы и т.д.





Trigonometry

Данный раздел позволяет решать любые задачи так или иначе связанные с тригонометрией. Вычисление выражений, тригонометрические функции, теоремы тригонометрии.

Trigonometric Calculations

Evaluate trigonometric functions or larger expressions involving trigonometric functions with different input values.

Compute values of trigonometric functions:

sin(pi/5) =

tan(60 deg) =

Compute values of inverse trigonometric functions:

arcsin(1/2) =

Trigonometric Identities

Learn about and apply well-known trigonometric identities.

Find multiple-angle formulas:

expand sin 4x =

Find addition formulas:

expand sin(x+y+z) =

Find other trig identities:

factor sin x + sin y =

Trigonometric Functions

Learn about and perform computations using trigonometric functions and their inverses, over the real or complex numbers.

Compute properties of a trigonometric function:

cos x =

sec(5x) =

Compute properties of an inverse trigonometric function:

arccot x =

Plot a trigonometric function:

plot sin(x) =

Analyze a trigonometric function of a complex variable:

sin(z) =

Analyze a trigonometric polynomial:

cos(x) + 1/2 cos(2x) + 1/4 cos(4x) =

Generate a table of special values of a function:

closed-form values of tan(x) =

Compute the root mean square of a periodic function:

root mean square 3sin(t)-2cos(2t) =

Trigonometric Identities

Learn about and apply well-known trigonometric identities.

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Spherical Trigonometry

Study the relationships between side lengths and angles of triangles when these triangles are drawn atop a spherical surface.

Apply a theorem of spherical trigonometry:

law of haversines =

Plot a trigonometric function:

plot sin(x) =

Analyze a trigonometric function of a complex variable:

sin(z) =

Analyze a trigonometric polynomial:

cos(x) + 1/2 cos(2x) + 1/4 cos(4x) =

Generate a table of special values of a function:

closed-form values of tan(x) =

Compute the root mean square of a periodic function:

root mean square 3sin(t)-2cos(2t) =

root mean square squarewave(t/3) + sin(pi t) =