

User Stories

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Note: The reference point for the user story estimate is 13 points for 1 day.

[calc-us-001] A user can calculate basic equations related to arithmetic operators.

Constraints

1. The user can use number pad to input the digits.
2. The user can use symbols to input the special constants.
3. The operations involve both numbers and symbols.

Acceptance Criteria

1. The user is able to perform arithmetic operations between two numbers.
2. The user is able to perform arithmetic operations between symbols.
3. The user is able to perform arithmetic operations amongs number and symbols.

Priority: high.

Estimate: 5 points.

[calc-us-002] use can evaluate expressions with scientific operators.

Constraints

1. The user can combine two different kind of scientific operators.

Acceptance Criteria

1. The user is able to perform logarithmic and trigonometric operations.
2. The user is able to use arithmetic operators with scientific operators.

Priority: medium

Estimate: 8 points.

[calc-us-003] A user can evaluate an expression in order to process with variable data for his research.

Constraints

1. The expression can be the combination of arithmetic operations and logarithmic operations.
2. The expression may contain the Gelfond's constant.

Acceptance Criteria

1. The user is able to calculate the roots of an equation.

Priority: low

Estimate: 13 points.

[**calc-us-004**] A user can calculate the volume of n-ball sphere.

Constraints

1. The user will provide only the value of n.
2. The sphere will always be unit size.

Acceptance Criteria

1. The user can validate the size of the balls to be unit.
2. The user can calculate the volume.

Priority: medium

Estimate: 21 points.

[**calc-us-005**] A user can derive almost integer numbers.

Constraints

1. The user can use only transcendental numbers in order to mix it with the Gelfond's constant.

Acceptance Criteria

1. The user should be able to generate Ramanujan's constant, $e^\pi - \pi$

Priority: medium

Estimate: 13 points.