



計算しましょう / GETTING STARTED

数値入力キー / Numeric Entry Keys

Table showing numeric entry keys and their functions. Example: 12345, then 1 2 4 (wrong), then 1 2 4 5 (correct).

モード選択キー / Mode Selection Keys

Table showing mode selection keys: 10進演算(ディグリー)モード, 2進演算モード, 8進演算モード, 16進演算モード, 統計計算モード, 複素数計算モード.

表示モードキー / Display Mode Keys :

Table showing display mode keys: 浮動小数点モード, 科学指数モード, 工学指数モード, 分解工学指数モード.

小数位選択キー、ラウンド関数 / Decimal Point Selection Key, Rounding function :

Table showing decimal point and rounding keys: 小数第5位, 小数第0位, 小数位リセット.

例: \*1 数字は左寄せで表示されます。この場合、小数第5位が指定されていますが、上位10桁の数字が表示されます。小数第5位は表示されません。

\*2 表示された数値は、指定された範囲内で切り上げられます。ただし、実際の計算結果はレジスタに記憶されます。

\*3 指定した小数点以下の桁以降の桁を省略します。

例: \*1 The number is displayed with left justification. In this case, 5 decimal places are specified, but only the 10 most significant digits are displayed. The 5th decimal place is not displayed.

\*2 The displayed value is rounded up within the specified range, but the actual calculation result is retained in the register.

\*3 Round the value to the specified number of decimal places.

基本演算命令キー / Basic Calculation Keys

Table showing basic calculation keys: 2 x (3 + 4) = 14, 1 + [(4 - 3.6 + 5) x 0.8 - 6] x 4.2 = -6.056.

分数計算キー / Fraction Calculation Keys:

Table showing fraction calculation keys: 2/3, 1 2/5.

例: 1 2/3 + 4 5/6 を計算し、結果を小数に変換します。 / Example: Calculate 1 2/3 + 4 5/6 and convert the result to a decimal fraction.

Table showing mixed fraction conversion keys: 1 2/3, 4 5/6.

帯分数、仮分数変換キー / Mixed, Improper Fraction Conversion Key:

例: 10/3 を入力し、帯分数に変換します。 / Example: Enter 10/3 and convert it to a mixed fraction.

Table showing mixed/improper fraction conversion keys: 10/3, 3 2/3.

メモリキー / Memory Keys

例: 独立メモリを使用 / Example: Using the independent Memory

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Table showing memory keys: 123, M 123, M 456, M 579, M 789, M 789, M 0., 0.

例: 変数メモリを使用 / Example: Using the memory variable

Table showing memory variable keys: 36, 51, 51, 0., 36, 51.

2進 / 8進 / 16進数キー / Binary / Octal / Hexadecimal Number Keys

Table showing binary/octal/hexadecimal keys: AB7C, (HEX.), Ab7C.

複素数計算 / Complex Number Calculation

Table showing complex number calculation keys: (12-3i) - (4+7i) = 8-10i, (6-7i) x (-8+9i) = 15+110i.

n進計算範囲 / BASE Calculation Range

2の補数演算 / Two's Complement Calculation: 例: 2進の1を入力し、1を3回減算します。 / Example: Enter 1 in binary and subtract 1 three times.

Table showing base calculation keys: (BIN), 0., 1., 0., 1111111111, 1111111110.

統計計算 / Statistical Calculations

Table showing statistical calculation keys: (STAT), 0., 10, 1., 20, 2., 30, 3., 40, 4., 50, 5., 30, xの平均, 15.8113883, xの標準偏差, 150, xの総和, 5500, 値の平方和, 14.14213562, xの母標準偏差, 10, 最小値, 50, 最大値.

統計データの追加、削除 / Add, Delete Statistical Data

例: 統計データを追加 / Example: Add Statistical data

Table showing add/delete statistical data keys: (STAT), 0., 10, 1., 20, 2., 30, 3.

例: 統計データを削除 / Example: Delete Statistical data

Table showing delete statistical data keys: (STAT), 0., 10, 1., 20, 2., 30, 3., 40, 4., 3., 70, xの総和.

統計計算結果のアウトプット / Output of Statistical Calculation Results

Table showing statistical calculation results: データ標本数, xの平均, xの標準偏差, xの母標準偏差, 標準の分散, 母集団の分散, xの総和, 平方和.

統計計算例題 / Statistical Calculation Examples

例: ピザを20切れ買いました。しかし、次の表のようにピザの直径がまちまちです。統計情報を計算してください。 / Example: You bought 20 pieces of pizza. However, the diameter of each pizza is varied as shown in the following table. Please calculate the statistic based on this information.

Table showing pizza diameter data: 直径 / Diameter, 中間点 / Midpoint, 度数 / Frequency.

Table showing statistical calculation examples: (STAT) 0., 0.0000, 2.0000, 6.0000, 11.0000, 17.0000, 20.0000, 20.0000, 30.2000, 604.0000, 18270.0000, 1.2397, 1.2083.

演算例 / CALCULATION EXAMPLES

1. 10進演算 (ディグリーモード) / Decimal Calculations (Degree mode)

初期モード設定 / Initial mode setting: 統計モード / Calculation Mode: 10進ディグリーモード / Decimal Degree Mode. Press (STAT) and then press (D) until (D) is displayed.

表示モード / Display Mode: 浮動小数点モード / Floating Mode. 小数点 / Decimal Point: リセット / Resetting (0.).

Table showing calculation examples: 加算、減算 / Addition and Subtraction, 乗算、除算 / Multiplication and Division, 四則混合計算 / Mixed Calculations, 指数計算 / Exponential Calculations, 分数計算 / Fractional Calculations, 定数計算 / Constant Calculations.

Table showing parentheses calculations: 括弧付計算 / Parentheses Calculations.

Table showing percentage calculations: 百分率計算 / Percentage Calculations.

Table showing constant percentage calculations: 定率計算 / Constant Percentage Calculations.

Table showing add-on calculation: 割増計算 / Add-On (Mark Up) Calculation.

Example table showing discount calculation: 200 - (200 x 20%) = 160. Operation: 200 M- 20% M= 160.

メモリ計算 / Memory Calculations

Table showing independent memory calculations for addition and multiplication. Operation: 20 x 30 = 600, 40 x 50 = 2000, etc.

Table showing memory variable calculations. Operation: 9 x 6 + 3 = 57, 5 x 8 = 40, 2,280.

2. 2進、8進、16進演算 / Binary, Octal, Hexadecimal Calculations

2進演算 / Binary Calculations

Table showing binary calculations for addition, subtraction, multiplication, and division. Operation: 10101011 + 1100 = 11000101.

8進演算 / Octal Calculations

Table showing octal calculations for addition, subtraction, multiplication, and division. Operation: 654 + 321 = 1175.

16進演算 / Hexadecimal Calculations

Table showing hexadecimal calculations for addition, subtraction, multiplication, and division. Operation: AAA + BB + C = B71.

3. 基本関数計算 / Basic Function Calculations

π関数 / Pi Function

Table showing pi function calculation: π x 10. Operation: π x 10 = 31.41592654.

三角関数、逆三角関数 / Trigonometric Functions, Inverse Trigonometric Functions

Table showing trigonometric functions. Operation: sin 53 = 0.79863551, cos 53 = 0.866025403.

対数関数、対数平均、指数関数 / Logarithmic Functions, Logarithmic Mean, Exponential Functions

Table showing logarithmic and exponential functions. Operation: log 123 = 2.089905111, ln 123 = 4.812184355.

累乗、ルート、双曲線 / Powers, Roots, Hyperbolic Functions

Table showing square calculations. Operation: 1.25^2 = 1.5625.

立方計算 / Cubic Calculations

Table showing cubic calculations. Operation: 5.43^3 = 160.103007.

累乗計算 / Power Calculations

Table showing power calculations. Operation: 2.11^5 = 41.82272021.

定数乗計算 / Constant Power Calculations

Table showing constant power calculations. Operation: 2^{2.34} = 5.063026376.

開平 / Extraction of Square Root

Table showing square root extraction. Operation: sqrt(5+6) x 7 = 8.774964387.

重解 / Multiple Root

Table showing multiple root calculation. Operation: cube root of 100 = 2.384286779.

定数ルート計算 / Constant Multiple Root Calculations

Table showing constant multiple root calculations. Operation: cube root of 1024 = 4.

幾何平均 / Geometric Mean

Table showing geometric mean calculation. Operation: G = cube root of (1.23 x 1.48 x 1.96 x 2.2) = 1.673830182.

開立 / Extraction of Cubic Root

Table showing cubic root extraction. Operation: cube root of 123 = 4.973189833.

逆数計算 / Reciprocal Calculations

Table showing reciprocal calculation. Operation: 1 / (2 x 3 + 4) = 0.1.

三角法計算 / Trigonometric Calculations

Table showing trigonometric calculations. Operation: cosec x = 1/sin x, cosec 45 = 1.414213562.

階乗計算 / Factorial Calculations

Table showing factorial calculation. Operation: (4 x 2 - 3)! = 120.

双曲線関数 / Hyperbolic Functions

Table showing hyperbolic functions. Operation: cosh 34 = 2.917308713 x 10^14.

角度単位変換 / Angle Unit Conversion

Table showing angle unit conversion. Operation: 60 degrees to radians = 1.047197551.

順列、組み合わせ / Permutations, Combinations

Table showing permutations and combinations. Operation: nPr = 60 for n=5, r=3.

座標変換 / Coordinates Conversion

Table showing coordinate conversion between rectangular and polar. Operation: (1, sqrt(3)) to polar (2, 60).

度分秒計算 / Degrees-Minutes-Seconds Calculations

Table showing degrees-minutes-seconds calculations. Operation: 123.7516667 to DMS = 123°45'06.78°.

4. 応用計算 / Applied Calculations

電気 - 積分回路 / Electricity - Integrating Circuit Problem

JP スイッチを入れた後の、t=56msでのコンデンサの電圧Vcを計算します。

EN Obtain the voltage Vc across the capacitor at t=56ms after the switch is turned on.

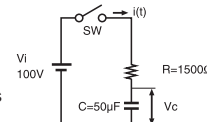


Table showing a complex calculation involving Vc = Vi(1 - e^{-t/RC}) and its numerical evaluation to 52.60562649.

代数 / Algebra

JP 二次方程式の解(実数解を持つ問題に限る。)

EN The Root of a Quadratic Equation (Only for problems having a real root)

Table showing algebraic calculations for a quadratic equation. Operation: 4x^2 + 9x + 2 = 0.

時間の計算 / Calculation of time

例題1 / Example 1

JP 航空機の出発時刻が2時9分56秒(2'09'56")で、到着時刻が4時18分23秒(4'18'23")であるときの移動時間は?

EN The air flight departs at 2 o'clock 9 minutes and 56 seconds (2'09'56"), and arrives at 4 o'clock 18 minutes and 23 seconds (4'18'23"). What is the travel time?

Table showing time calculation. Operation: 4'18'23" - 2'09'56" = 2'08'27".

例題2 / Example 2

JP 以下は、3日間の労働時間を示しています。総労働時間は?

EN The following shows the amount of time worked in three days. What was the total time?

1日目 : 5時間46分 / 1st day : 5 hours 46 minutes (5'46')
2日目 : 4時間39分 / 2nd day : 4 hours 39 minutes (4'39')
3日目 : 3時間55分 / 3rd day : 3 hours 55 minutes (3'55')

Table showing time calculation. Operation: 5'46" + 4'39" + 3'55" = 14'20".

5. 演算範囲および精度 / Operation Range and Accuracy

JP 内部桁数 : 14

精度 \* : 10桁目±1

入力範囲 : 0 ≤ x ≤ 9.999999999 x 10^99

出力範囲 : 1 x 10^-99 から ±9.999999999 x 10^99

EN Internal digits : 14

Accuracy \* : ±1 at the 10th digits

Input Ranges : 0 ≤ x ≤ 9.999999999 x 10^99

Output Ranges : 1 x 10^-99 to ±9.999999999 x 10^99

Large table showing function ranges and accuracy for various mathematical functions like sin, cos, tan, etc.

Table showing the effect of conversion on operation ranges for DEC, BIN, OCT, and HEX modes.

JP \* 連続して計算する場合、誤差が累積されるため、誤差が大きくなる場合があります。(x^y), x^1/y, x!, nPr, nCr, 等の場合に、内部で連続して計算が実行される場合も同様です。

EN \* In the case of consecutive calculations, errors are cumulative. This is also true when internal consecutive calculations are performed; for example, (x^y), x^1/y, x!, nPr, nCr, etc. In this case, the cumulative data may become large.