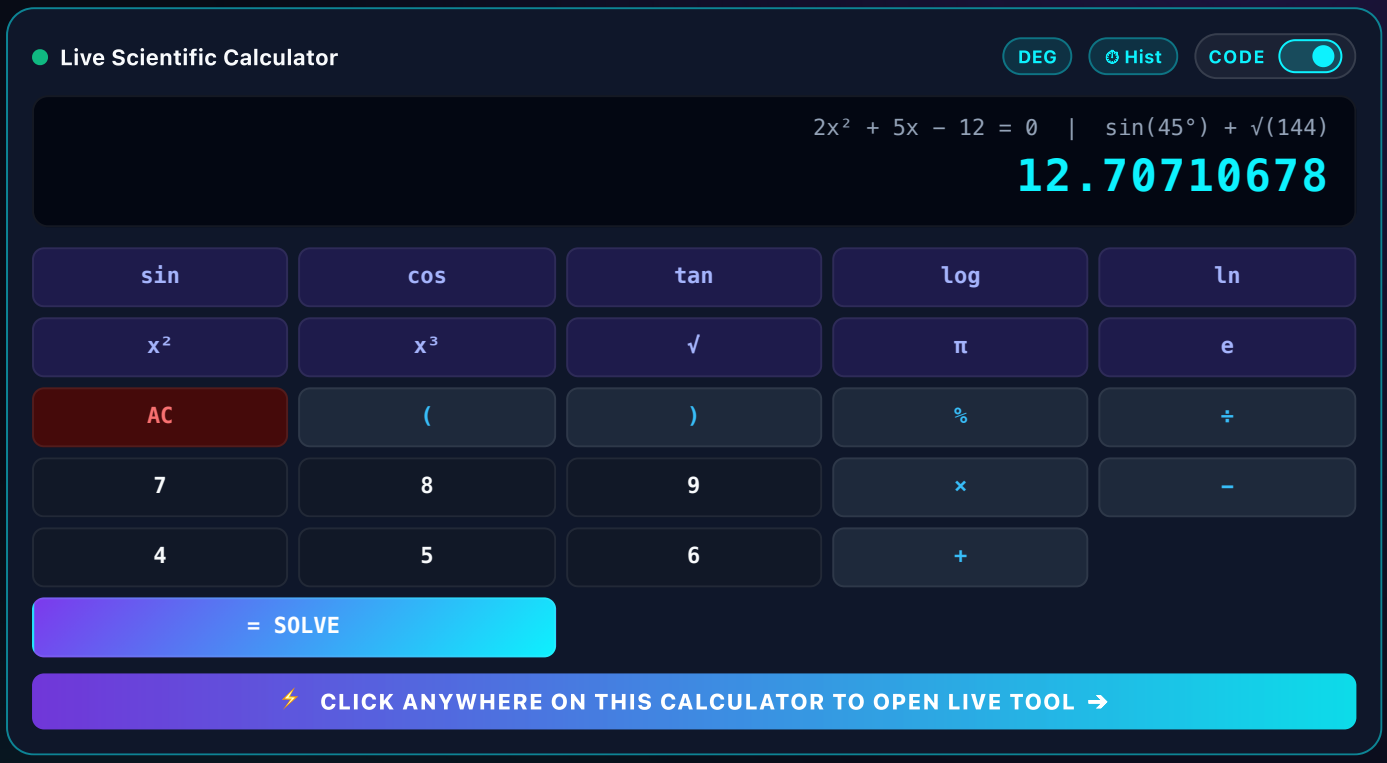
✨ 100% Free Math & Science Suite • Trusted by 250,000+ Students

Free Online Scientific Calculator & Step-by-Step Math Solver

Welcome to the official cheat sheet and guide for **CalcSolver** (also known as **SolveCalc**). Engineered specifically for middle school, high school, and university students seeking fast, distraction-free equation solving on any school Chromebook, laptop, or phone.



🚀 LAUNCH CALCSOLVER ONLINE CALCULATOR ➔

Instant Online Access • No Registration • 100% Free Forever

⚡ Instant Solver

Real-time evaluations for algebra, trigonometry, powers, fractions, and logarithms with zero latency.

💻 School Friendly

Lightweight and fully functional on school Chromebooks, iPads, MacBooks, and Android devices.

📚 38+ Free Modules

Includes Quadratic Solvers, Calculus Derivatives, Unit Converters, and Physics tools.

Algebra, Factoring & Quadratic Solver Reference

Use this cheat sheet to master algebra homework. Verify your calculations instantly on CalcSolver.

The Quadratic Formula (Standard Form: $ax^2 + bx + c = 0$)

Essential

$$x = \left[-b \pm \sqrt{(b^2 - 4ac)} \right] / 2a$$

Solve Online ➔

$\Delta = b^2 - 4ac > 0$	$\Delta = b^2 - 4ac = 0$	$\Delta = b^2 - 4ac < 0$
2 Distinct Real Roots	1 Real Repeated Root	2 Complex / Imaginary

Laws of Exponents & Radicals

Product Rule — Powers

$$a^m \cdot a^n = a^{m+n}$$

Quotient Rule — Powers

$$a^m / a^n = a^{m-n}$$

Power of a Power — Powers

$$(a^m)^n = a^{mn}$$

Negative Exponent — Inversion

$$a^{-n} = 1 / a^n$$

Fractional Exponent — Roots

$$a^{(m/n)} = \sqrt[n]{(a^m)}$$

Zero Exponent Rule — Identity

$$a^0 = 1 \quad (\text{for } a \neq 0)$$

Logarithm Properties (Base b & Natural ln)

Log Product Law

$$\log_b(xy) = \log_b(x) + \log_b(y)$$

Log Quotient Law

$$\log_b(x/y) = \log_b(x) - \log_b(y)$$

Log Power Law

$$\log_b(x^k) = k \cdot \log_b(x)$$

Change of Base Formula

$$\log_b(x) = \ln(x) / \ln(b)$$

Factoring & Polynomial Expansions

Special Product Name	Factored Form	Expanded Polynomial Form
Difference of Two Squares	$(a - b)(a + b)$	$a^2 - b^2$
Square of a Binomial (Sum)	$(a + b)^2$	$a^2 + 2ab + b^2$
Square of a Binomial (Diff)	$(a - b)^2$	$a^2 - 2ab + b^2$
Sum of Two Cubes	$(a + b)(a^2 - ab + b^2)$	$a^3 + b^3$
Difference of Two Cubes	$(a - b)(a^2 + ab + b^2)$	$a^3 - b^3$

Need to factor an equation? Solve it step-by-step on CalcSolver — Open Solver ➔

📈 Trigonometry & Calculus Quick Reference

Complete formulas for SOH-CAH-TOA, Unit Circle exact values, Derivatives, and Integrals.

📐 Trigonometric Ratios & Core Identities

SOH - Sine Ratio

$\sin(\theta) = \text{Opposite} / \text{Hypotenuse}$

CAH - Cosine Ratio

$\cos(\theta) = \text{Adjacent} / \text{Hypotenuse}$

TOA - Tangent Ratio

$\tan(\theta) = \text{Opposite} / \text{Adjacent}$

Pythagorean Identity #1

$\sin^2(\theta) + \cos^2(\theta) = 1$

Pythagorean Identity #2

$1 + \tan^2(\theta) = \sec^2(\theta)$

Pythagorean Identity #3

$1 + \cot^2(\theta) = \csc^2(\theta)$

🎯 Exact Trigonometric Table (Standard Angles)

Degrees (°)	Radians (rad)	sin(θ)	cos(θ)	tan(θ)
0°	0	0	1	0
30°	π/6	1/2	√3 / 2	√3 / 3
45°	π/4	√2 / 2	√2 / 2	1
60°	π/3	√3 / 2	1/2	√3
90°	π/2	1	0	Undefined (∞)

∫ Calculus: Essential Derivative & Integral Rules

Power Rule (d/dx)

$d/dx\ [x^n] = n \cdot x^{n-1}$

Power Rule (Integral)

$\int x^n\ dx = (x^{n+1}) / (n+1) + C$

Product Rule

$(u \cdot v)' = u'v + uv'$

Quotient Rule

$(u / v)' = (u'v - uv') / v^2$

Chain Rule

$d/dx\ [f(g(x))] = f'(g(x)) \cdot g'(x)$

Exponential Derivative

$d/dx\ [e^x] = e^x \quad | \quad d/dx\ [\ln x] = 1/x$

🧮 **Compute derivatives, integrals, and angles with 1-click accuracy** — Launch CalcSolver ➔

⚡ Student Keyboard Shortcuts & Productivity Hacks

Master your classroom workflow with lightning-fast keyboard controls on CalcSolver.

Enter Key = Calculate (=)
Instantly evaluates your full expression without clicking the equals button.

Backspace = Delete Last Entry
Quickly removes the last entered digit or operator without wiping your work.

Escape / C = All Clear (AC)
Clears the current display screen and resets the calculation buffer.

Shift + 6 (^) = Exponent Power
Quickly raises your base number to any power or exponent value.

📲 How to Pin CalcSolver to Your School Chromebook or Phone (1-Tap App)

1. **On Chromebook / Chrome:** Open CalcSolver (calcsolver.pro), click the **three dots (⋮)** in top-right ➔ select **"Install CalcSolver"** or **"Create Shortcut"** (check 'Open as window'). It will pin right to your Chromebook shelf!
2. **On iPhone / iPad (Safari):** Tap the **Share** button ➔ select **"Add to Home Screen"**.
3. **On Android (Chrome):** Tap the **menu (⋮)** ➔ tap **"Add to Home Screen"**.

❓ Frequently Asked Questions (FAQ)

• What makes CalcSolver & SolveCalc better than standard calculators?
Unlike basic handheld calculators, CalcSolver provides a high-contrast dark theme, calculation history memory recall, trigonometric degree/radian toggles, and over 38+ dedicated tools for Algebra, Physics, Chemistry, and Geometry.

• Is CalcSolver 100% free for students and schools?
Yes! There are no paywalls, subscriptions, or required account sign-ups. Students and educators worldwide can access all features without limitation.

• Does CalcSolver work on school Wi-Fi and Chromebooks?
Yes, CalcSolver is optimized to load ultra-fast with lightweight client-side computation, ensuring seamless operation even on restricted school networks and low-memory devices.

🏆 **OPEN CALCSOLVER CALCULATOR NOW ➔**

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