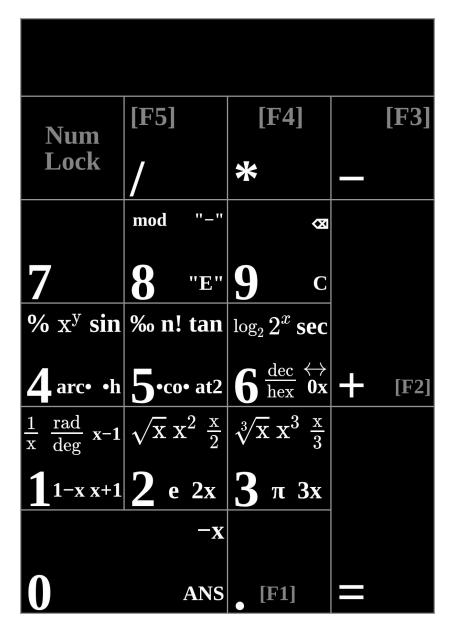
Kpcalc user manual



Scientific mode functions currently supported:

Dot, +, -, * and / keys, when pressed and released quiclky, work as expected. Once one of them is pressed and held it acts as a modifier. There are 5 modifiers activating different functions when pressing number keys. If the keyboard does not have a numeric keypad, F1-F5 keys can be used instead.

- mod = modulo operation, calculates remainder of a division by pressing both (/ 8)
- "E" and "-" are used to enter a number in scientific notation, for example: 1.5e-12 (- 8)
- Backspace <= is used to remove last digit of the number currently being entered (- 9)
- C = "clear" clears the state of the calculator (+ 9)
- x**y is power (* 4)
- sin calculates sine function (- 4)
- n! calculates facotrial (* 5)
- tan calculates the tangent function (- 5)

- log2 calculates the logarithm base 2 (/ 6)
- 2**x calculates the 2 to the power of x (* 6)
- at2 = atan2(x, y) calculates arctangent, taking two sides (+ 5)
- [dec/hex] selects between scientific mode and hexadecimal mode (. 6)
- <->0x shows the hexadecimal representation of a number while staying in sci mode (+ 6)
- 1/x calculates one over x (/ 1)
- [rad/deg] selects between radians and degrees modes used in trig functions (* 1)
- x 1 decrements the number (- 1)
- sqrt() function is accessible using (/ 2)
- x**2 = square a number by pressing (* 2)
- x/2 divide number by two (- 2)
- cube root is activated by pressing (/ 3)
- x/3 is activated by pressing (- 3) simultaneously
- 1-x is activated by pressing (. 1)
- x+1 increment a number by pressing (+ 1)
- e constant = 2.7182... available by pressing (. 2)
- 2x double the number by pressing (+ 2)
- pi constant = 3.14159... available by pressing (. 3)
- 3x triple the number by pressing (+ 3)

Num	[F5]	[F4]	[F3]
Lock	/	*	
	mod "-"	⋘	
7	8 "E"	9 c	
% x ^y ∼	‰ n! tan	$\log_2 2^x$ sec	
4 e xor	5 f	$6 \frac{\text{dec}}{\text{hex}} \overset{\longleftrightarrow}{0}_{x}$	+ [F2]
& x-1	$\sqrt{\mathbf{x}} \mathbf{x}^2 >>$	$\sqrt[3]{\mathbf{x}} \mathbf{x}^3 \frac{\mathbf{x}}{3}$	
1 b x+1	2 c <<	3 d 3x	
	- X		
0 a	ANS	• [F1]	

Hex mode allows entering not just numbers, but letters from a to f by pressing dot (or F1) and the corresponging number from 0 for a to 5 for f. Hexadecimal numbers are prefixed by 0x.

- xor is activated by pressing simultaneously dot (or F1) and 4 keys: (. 4)
- or is activated by pressing (/ 1)
- and is activated by pressing (* 1)