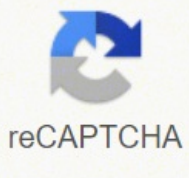




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How to calculate angle between two points in excel

05-01-2015, 05:53 AM #1 Helloooo ... Can someone kindly direct me ... I have 3 points in an x,y,z plane, and I would like to calculate (in degrees) the angle between the 2 lines formed by these. Example: point A: 3,5,7 point B: 5,6,1 point C: 9,9,4 how can i measure the angle between A-B (line) and B-C (line)? or in other words, how to implement calculating angles between vectors in 3-D coordinates in excel? Thank you 05-01-2015, 07:20 AM #2 There's a nice brief explanation of how to calculate here: What you'll do in Excel is determine the relative axial differences from the common point to the end points and those values will represent P and Q with vector end points i, j, k as calculated (common point is now relative zero). Then you calculate the dot product of the points divided by the product of the magnitudes and get the arccos of the result. 05-01-2015, 07:24 AM #3 Sounds great. Can you kindly help me implement that in an excel function? 05-01-2015, 07:50 AM #4 Attached Files 3d angles.xlsx (9.4 KB, 263 views) Download 05-01-2015, 01:51 PM #5 THANK YOU SOOOO MUCH. Highly appreciated :D Home » Excel-Built-In-Functions » Excel-Math-Functions » Excel-Atan2-FunctionThe Excel ATAN2 function calculates the arctangent (i.e. the inverse tangent) of a given set of x and y coordinates, and returns an angle, in radians, between -π/2 and +π/2.The syntax of the function is:ATAN2(x_num, y_num)Where the x_num and y_num arguments are the x- and y- coordinates of the point that you want to calculate the arctangent of.Note: the angle returned from the Atan2 function may be positive (representing a counterclockwise angle from the x-axis), or negative (representing a clockwise angle from the x-axis). This result is given in radians.Excel Atan2 Function ExamplesColumn A of the following spreadsheet shows examples of the Excel Atan2 Function, used to calculate the arctangent of different x- and y- coordinates.Note that in the example in cell A4, the Excel Degrees function is used to convert the calculated angle from radians to degrees.For further information and examples of the Excel Atan2 function, see the Microsoft Office website.Atan2 Function Common ErrorsIf you get an error from the Excel Atan2 Function, this is likely to be one of the following:Common Errors#DIV/0!-Occurs if the supplied x_num and y_num arguments are both equal to 0.#VALUE!-Occurs if one or both of the supplied arguments are non-numeric. Assumptions: x is the horizontal axis, and increases when moving from left to right. y is the vertical axis, and increases from bottom to top. (touch_x, touch_y) is the point selected by the user. (center_x, center_y) is the point at the center of the screen. theta is measured counter-clockwise from the +x axis. Then: delta_x = touch_x - center_x delta_y = touch_y - center_y theta_radians = atan2(delta_y, delta_x) Edit: you mentioned in a comment that y increases from top to bottom. In that case, delta_y = center_y - touch_y But it would be more correct to describe this as expressing (touch_x, touch_y) in polar coordinates relative to (center_x, center_y). As ChrisF mentioned, the idea of taking an "angle between two points" is not well defined. pi in c language C bitwise integer absolute value prime numbers c how to create random integers from a specific range in c language series sort series sort values angle between two points invalid operands to binary expression ('int *' and 'int *') Sorting number excluding elements in highest to lowest how to include math library in c write a program to find reverse of given number reverse a number in c Write a c program to add two numbers without using addition operator. find power of a number in c zigzag c octave square each element matrix roll binary c Prime Number Check Program in C prime chec kin c prime check in c how to reset all values of 2d vector to 0 go Iterating over an array using a range operator c program to find minimum of 4 numbers using conditional operator in c ecrire programme en C une fonction remplir tableau et un fonction inverser factorial in c using recursion binary search tree of strings in c Palindrome number in c program why do we need return 0 in c? odd even in c with ternary operator highest common factor algorithm in c how to arrange a 2d array based on string length in c how to read 2d array from a file in c c# for loop decrement Sort linked list C Bitwise Operators in C language print 0 1 2 3 4 in c while loop sum of arrays modulation Relational Operator in C language Frequency atomic variable c tuples in C C program to calculate the sum of odd and even numbers logical operators logical operators in c recursive function in c turn a char array into double C c pause for 1 second how to make two arrays equal in c malloc les fichiers en c bool c++ c math.h sqrt gsl matrix invert array type has incomplete element type struct c program for fibonacci series 2 dimensional array in c crear funcion en c there is a string, , of lowercase english letters that is repeated infinitely many times. given an integer, , find and print the number of letter a's in the first letters of the infinite string. swap using third variable how to declare 3dimensional arrays in wiring online calculate time complexity Example of Implementation of a pointer to an array in C: What is a while loop program in C to generate numbers from 0

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