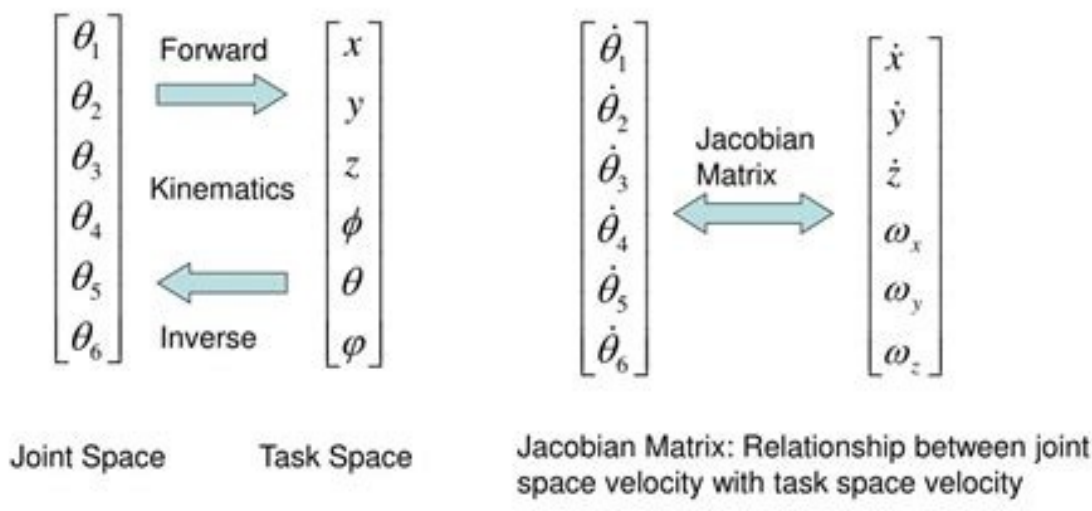


Find the inverse of each function worksheet

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Jacobian Matrix



Find the functional values $f(-2)$, and $f(3)$ for the function:
 $f(x) = x^2 + 1$

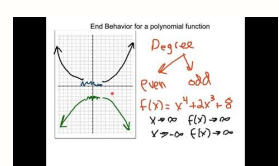
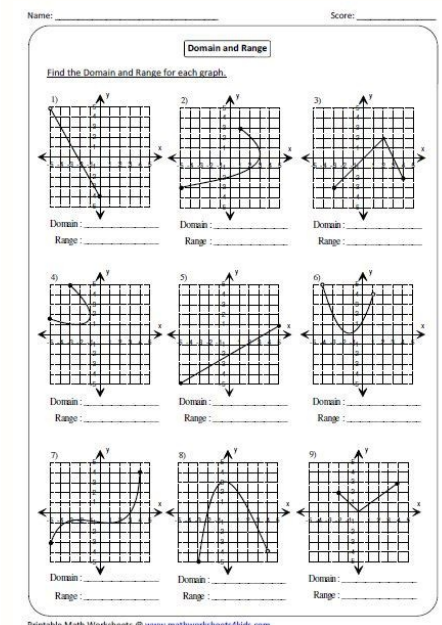
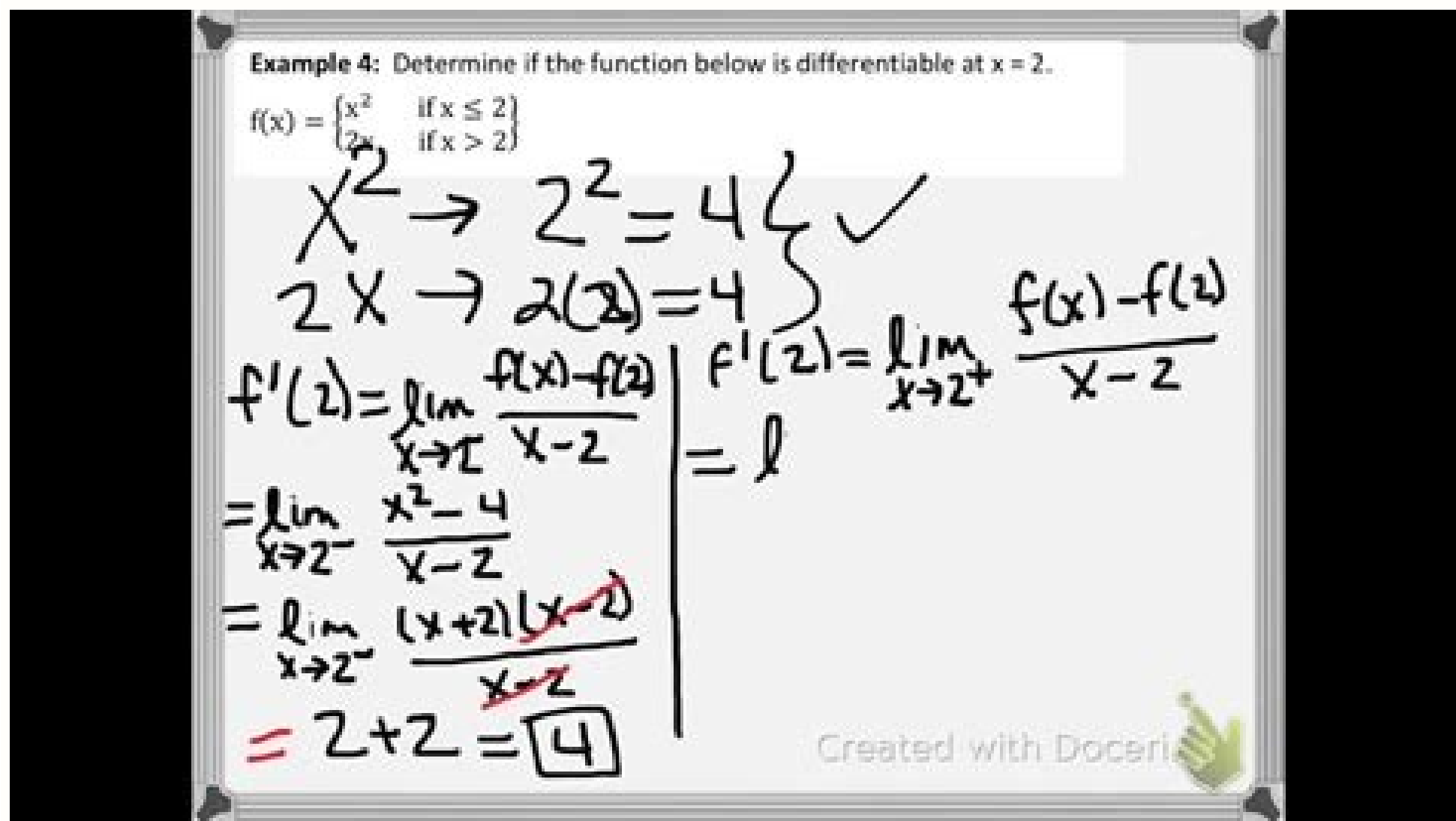
This problem involves 2 steps because you are asked to find two values for the function. You must evaluate for $f(-2)$ and $f(3)$.

Step 1: $f(x) = x^2 + 1$ find $f(-2)$ Original Problem
 $f(-2) = (-2)^2 + 1$ Substitute (-2) for x in the original function
 $f(-2) = 4 + 1$ Evaluate!
 $f(-2) = 5$ This is your answer to part 1.

Step 2: $f(x) = x^2 + 1$ find $f(3)$ Original Problem
 $f(3) = 3^2 + 1$ Substitute 3 for x in the original function.
 $f(3) = 9 + 1$ Evaluate!
 $f(3) = 10$ This is your answer to part 2.

Our final solution to the function, $f(x) = x^2 + 1$ is:

This means:
 If we substitute -2 for x We get an answer of 5
 &
 If we substitute 3 for x We get an answer of 10



This extensive set of pdf worksheets includes exercises on graphing linear function by plotting points on the grid. Three types of function tables, each with two levels of worksheets, require learners in grade 8 and high school to plot the points and graph the lines. The graph of a linear function is always a straight line. Use the answer keys provided to verify your responses. Employ the various download options to gain access to all our worksheets under this topic. A number of free printable worksheets are also up for grabs! Printing Help - Please do not print worksheets with grids directly from the browser. Kindly download them and print. Graphing Linear Function: Type 1 - Level 1 Find $f(x)$ based on the x -coordinates provided and complete the function tables. Plot the points and graph the lines. The slopes given in level 1 worksheets are in the form of integers. Verify your graph with the answer keys provided. Graphing Linear Function: Type 1 - Level 2 These pdf worksheets provide ample practice in plotting the graph of linear functions. The slopes are represented as fractions in the level 2 worksheets. For the given x -coordinates, find $f(x)$ and complete the function tables. Plot the points and graph the linear function. Graphing Linear Function: Type 2 - Level 1 In this section, 8th grade and high school students will have to find the missing values of x and $f(x)$. Complete the function table, plot the points and graph the linear function. The slopes in level 1 worksheets are in the form of integers. Graphing Linear Function: Type 2 - Level 2 Write down the missing values of x and $f(x)$. There are nine linear functions in each worksheet with the slopes in the form of simplified fractions. Plot the coordinates and graph the lines. Graphing Linear Function: Type 3 - Level 1 Assume your own values for x for all printable worksheets provided here. Find the range. Compute the function tables, plot the points, and graph the linear functions. The slopes provided in level 1 worksheets are represented as integers. Graphing Linear Function: Type 3 - Level 2 The equations in the second level of worksheets have slopes in the form of fractions. Assign five values of x and find the corresponding values of $f(x)$. Plot the points and graph the linear function. Download our easy-to-print worksheets for ample practice. To work effectively in VBA, you must understand Loops. Loops allow you to repeat a code block a set number of times or repeat a code block on each object in a set of objects. First we will show you a few examples to show you what loops are capable of. Then we will teach you everything about loops. VBA Loop Quick Examples For Each Loops Loop through every object in a collection, such as every worksheet in workbook or every cell in a range. Loop Through all Worksheets in Workbook This code will loop through all worksheets in the workbook, unhiding each sheet: Sub LoopThroughWorksheets() Dim ws As Worksheet For Each ws In Worksheets ws.Visible = True Next End Sub Loop Through All Cells in Range This code will loop through a range of cells, testing if the cell value is negative, positive, or zero: Sub If_Loop() Dim Cell As Range For Each Cell In Range("A2:A6") If Cell.Value > 0 Then Cell.Offset(0, 1).Value = "Positive" Else Cell.Offset(0, 1).Value = "Negative" Else Cell.Offset(0, 1).Value = "Zero" End If Next End Sub For Next Loops Another type of "For" Loop is the For Next Loop. The For Next Loop allows you to loop through integers 1 through 10, displaying each with a message box: Sub ForLoop() Dim i As Integer For i = 1 To 10 MsgBox i Next i End Sub Do While Loops Do While Loops will loop while a condition is met. This code will also loop through integers 1 through 10, displaying each with a message box. Sub DoWhileLoop() Dim n As Integer For n = 1 To 10 Step 2 MsgBox n Next n End Sub For Loop Step Count to 10 - Only Even Numbers This code will count to 10 only counting even numbers. Sub ForEach_CountTo10_Even() Dim n As Integer For n = 2 To 10 Step 2 MsgBox n Next n End Sub Notice we added "Step 2". This tells the For Loop to "step" through the counter by 2. We can also use a negative step value to step in reverse: VBA Programming | Code Generator does work for you! For Loop Step - Inverse Countdown from 10 This code will countdown from 10: Sub ForEach_Countdown_Inverse() Dim n As Integer For n = 10 To 1 Step -1 MsgBox n Next n End Sub Delete Rows if Cell is Blank I've most frequently used a negative step For-Loop to loop through ranges of cells, deleting rows that meet certain criteria. If you loop from the top rows to the bottom rows, as you delete rows you will mess up your counter. This example will delete rows with blank cells (starting from the bottom row): Sub ForEach_DeleteRows_BlankCells() Dim n As Integer For n = 10 To 1 Step -1 If Range("a" & n).Value = "" Then Range("a" & n).EntireRow.Delete End If Next n End Sub Nested For Loop You can "nest" one For Loop inside another For Loop. We will use Nested For Loops to create a multiplication table: Sub Nested_ForEach_MultiplicationTable() Dim row As Integer, col As Integer For row = 1 To 9 For col = 1 To 9 Cells(row + 1, col + 1).Value = row * col Next col Next row End Sub Exit For The Exit For statement allows you to exit a For Next loop immediately. You would usually use Exit For along with an If Statement, exiting the For Next Loop if a certain condition is met. For example, you might use a For Loop to find a cell. Once that cell is found, you can exit the loop to speed up your code. This code will loop through rows 1 to 1000, looking for "error" in column A. If it's found, the code will select the cell, alert you to the found error, and exit the loop: Sub ExitFor_Loop() Dim i As Integer For i = 1 To 1000 If Range("A" & i).Value = "error" Then Range("A" & i).Select MsgBox "Error Found" Exit For End If Next i End Sub Important: In the case of Nested For Loops, Exit For only exits the current For Loop, not all active Loops. Continue For VBA does not have the "Continue" command that's found in Visual Basic. Instead, you will need to use "Exit" AutoMacro | Ultimate VBA Add-in | Click for Free Trial! VBA For Each Loop The VBA For Each Loop will loop through all objects in a collection: All cells in a range All worksheets in a workbook All shapes in a worksheet All open workbooks You can also use Nested For Each Loops to: All cells in a range on all worksheets All shapes on all worksheets All sheets in all open workbooks and so on... The syntax is: For Each Object in Collection [Do Something] Next [Object] Where: Object - Variable representing a Range, Worksheet, Workbook, Shape, etc. (ex. rng) Collection - Collection of objects (ex. Range("a1:a10")) [Do Something] - Code block to run on each object Next [Object] - Closing statement. [Object] is optional, however strongly recommended. For Each Cell in Range This code will loop through each cell in a range: Sub ForEachCell_inRange() Dim cell As Range For Each cell In Range("a1:a10") cell.Value = cell.Offset(0,1).Value Next cell End Sub For Each Worksheet in Workbook This code will loop through all worksheets in a workbook, unprotecting each sheet: Sub ForEachSheet_inWorkbook() Dim ws As Worksheet For Each ws In Worksheets ws.Unprotect "password" Next ws End Sub For Each Open Workbook This code will save and close all open workbooks: Sub ForEachWB_inWorkbooks() Dim wb As Workbook For Each wb In Workbooks wb.Close SaveChanges:=True Next wb End Sub AutoMacro | Ultimate VBA Add-in | Click for Free Trial! For Each Shape in Worksheet This code will delete all shapes in the active sheet. Sub ForEachShape() Dim shp As Shape For Each shp In ActiveSheet.Shapes shp.Delete Next shp End Sub For Each Shape in Each Worksheet in Workbook You can also nest For Each Loops. Here we will loop through all shapes in all worksheets in the active workbook: Sub ForEachShape_inAllWorksheets() Dim shp As Shape, ws As Worksheet For Each ws In Worksheets For Each shp In ws.Shapes shp.Delete Next shp End Sub For Each - IF Loop As we've mentioned before, you can use an If Statement within a loop, performing actions only if certain criteria is met. This code will hide all blank rows in a range: Sub ForEachCell_inRange() Dim cell As Range For Each cell In Range("a1:a10") If cell.Value = "" Then cell.EntireRow.Hidden = True Next cell End Sub VBA Do While Loop The VBA Do While and Do Until (see next section) are very similar. They will repeat a loop while (or until) a condition is met. Do While Loop will repeat a loop while a condition is met. Here is the Do While Syntax: Do While Condition [Do Something] Loop Where: Condition - The condition to test [Do Something] - The code block to repeat You can also set up a Do While loop with the Condition at the end of the loop: Do [Do Something] Loop While Condition We will demonstrate each and show how they differ: AutoMacro | Ultimate VBA Add-in | Click for Free Trial! Do While Here is the Do While loop example we demonstrated previously: Sub DoWhileLoop() Dim n As Integer n = 1 Do While n < 11 MsgBox n n = n + 1 Loop End Sub Loop While Now let's run the same procedure, except we will move the condition to the end of the loop: Sub DoLoopWhile() Dim n As Integer n = 1 Do MsgBox n n = n + 1 Loop While n < 11 End Sub VBA Do Until Loop Do Until Loops will repeat a loop until a certain condition is met. This is essentially the same as the Do While loops: Do Until Condition [Do Something] Loop and similarly the condition can go at the start or the end of the loop: Do [Do Something] Loop Until Condition Do Until This do Until loop will count to 10, like our previous examples Sub DoUntilLoop() Dim n As Integer n = 1 Do Until n > 10 MsgBox n n = n + 1 Loop End Sub AutoMacro | Ultimate VBA Add-in | Click for Free Trial! Loop Until This Loop Until loop will count to 10: Sub DoLoopUntil() Dim n As Integer n = 1 Do MsgBox n n = n + 1 Loop Until n > 10 End Sub Exit Do Loop Similar to using Exit For to exit a For Loop, you use the Exit Do command to exit a Do Loop immediately Exit Do Here is an example of Exit Do: Sub ExitDo_Loop() Dim i As Integer i = 1 Do Until i > 1000 If Range("A" & i).Value = "error" Then Range("A" & i).Select MsgBox "Error Found" Exit Do End If i = i + 1 Loop End Sub End or Break Loop As we mentioned above, you can use the Exit For or Exit Do to exit loops: Exit For Exit Do However, these commands must be added to your code before you run your loop. If you are trying to "break" a loop that's currently running, you can try pressing ESC or CTRL + Pause Break on the keyboard. However, this may not work. If it doesn't work, you'll need to wait for your loop to end or, in the case of an endless loop, use CTRL + ALT + Delete to force close Excel. This is why I try to avoid Do loops, it's easier to accidentally create an endless loop forcing you to restart Excel, potentially losing your work. More Loop Examples AutoMacro | Ultimate VBA Add-in | Click for Free Trial! Loop Through Rows This will loop through all the rows in a column: Public Sub LoopThroughRows() Dim cell As Range For Each cell In Range("A:A") If cell.Value = "" Then MsgBox cell.Address & ", " & cell.Value Next cell End Sub Loop Through Files in a Folder This code will loop through all files in a folder, creating a list: Sub LoopThroughFiles() Dim oFSO As Object Dim oFolder As Object Dim oFile As Object Dim i As Integer Set oFSO = CreateObject("Scripting.FileSystemObject") Set oFolder = oFSO.GetFolder("C:\Demo") i = 2 For Each oFile In oFolder.Files Range("A" & i).Value = oFile.Name i = i + 1 Next oFile End Sub Loop Through Array This code will loop through the array "arrList": For i = LBound(arrList) To UBound(arrList) MsgBox arrList(i) Next i The LBound function gets the "lower bound" of the array and UBound gets the "upper bound". Loops in Access VBA Most of the examples above will also work in Access VBA. However, in Access, we loop through the Recordset Object rather than the Range Object. Sub LoopThroughRecords() On Error Resume Next Dim dbs As Database Dim rst As Recordset Set dbs = CurrentDb Set rst = dbs.OpenRecordset("tblClients", dbOpenDynaset) With rst .MoveLast .MoveFirst Do Until .EOF = True MsgBox (rst.Fields("ClientName")) .MoveNext Loop End With rst.Close Set rst = Nothing Set dbs = Nothing End Sub

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