

CE311K Lab 5 Solution

```
mdOut Click
Private Sub cmdGraph_Click()
    'Display graph

    picOutput1.Scale (-6, 2)-(6, -25)
    picOutput1.Line (-6, 0)-(6, 0)
    picOutput1.Line (0, 2)-(0, -25)
    picOutput1.DrawWidth = 5
    For x = -5 To 5 Step 0.5
        denom = 3 * x ^ 2 + 5 * x + 2
        If denom <> 0 Then
            y = 8 * x / denom
            picOutput1.PSet (x, y), RGB(255, 0, 0)
        End If
    Next x
End Sub

Private Sub cmdTable_Click()
    Dim x As Single, denom As Single

    ' Display the table of x and f(x) values

    picOutput2.Print "x", "f(x)"
    picOutput2.Print "-----", "-----"

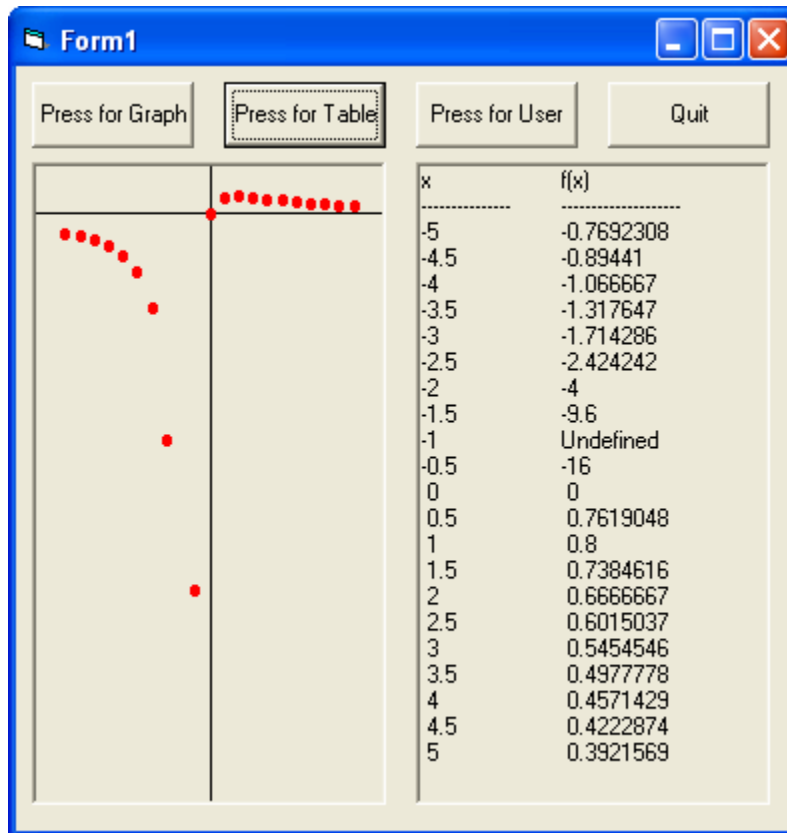
    For x = -5 To 5 Step 0.5
        denom = 3 * x ^ 2 + 5 * x + 2
        picOutput2.Print x,
        If denom <> 0 Then
            picOutput2.Print 8 * x / denom
        Else
            picOutput2.Print "Undefined"
        End If
    Next x
End Sub

Private Sub cmdUser_Click()
    Dim x As Single, y As Single, denom As Single

    ' Display the f(x) value for the user-entered x

    Dim answer As String
    x = InputBox("Enter a value for x (100,000 to quit)", "ENTER x")
    If x = 100000 Then
        End
    End If
    answer = "f(" & x & ") = "
    denom = 3 * x ^ 2 + 5 * x + 2
    If denom <> 0 Then
        answer = answer & (8 * x) / denom
    Else
        answer = answer & "Undefined"
    End If
    MsgBox answer, , "ANSWER"
End Sub

Private Sub cmdQuit_Click()
End
End Sub
```



ENTER x

Enter a value for x (100,000 to quit)

OK

Cancel

2

ANSWER

$f(2) = 0.6666667$

OK