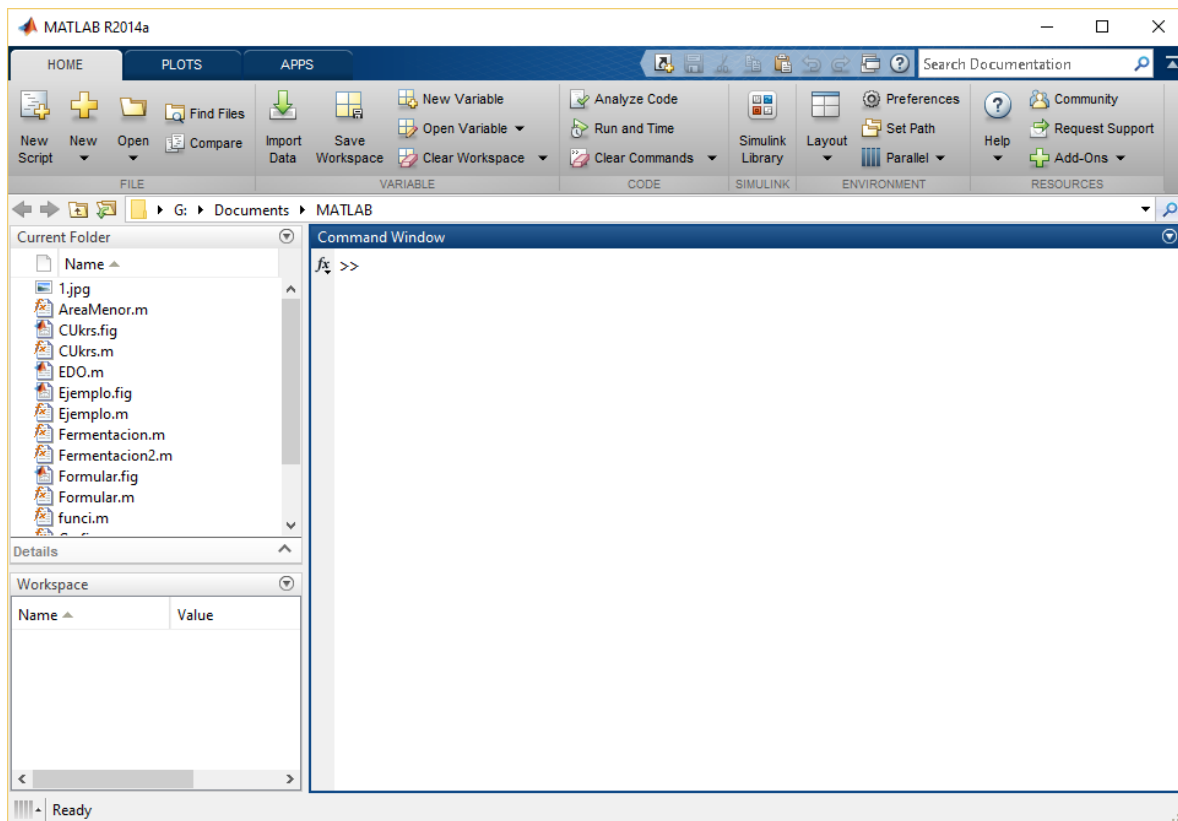


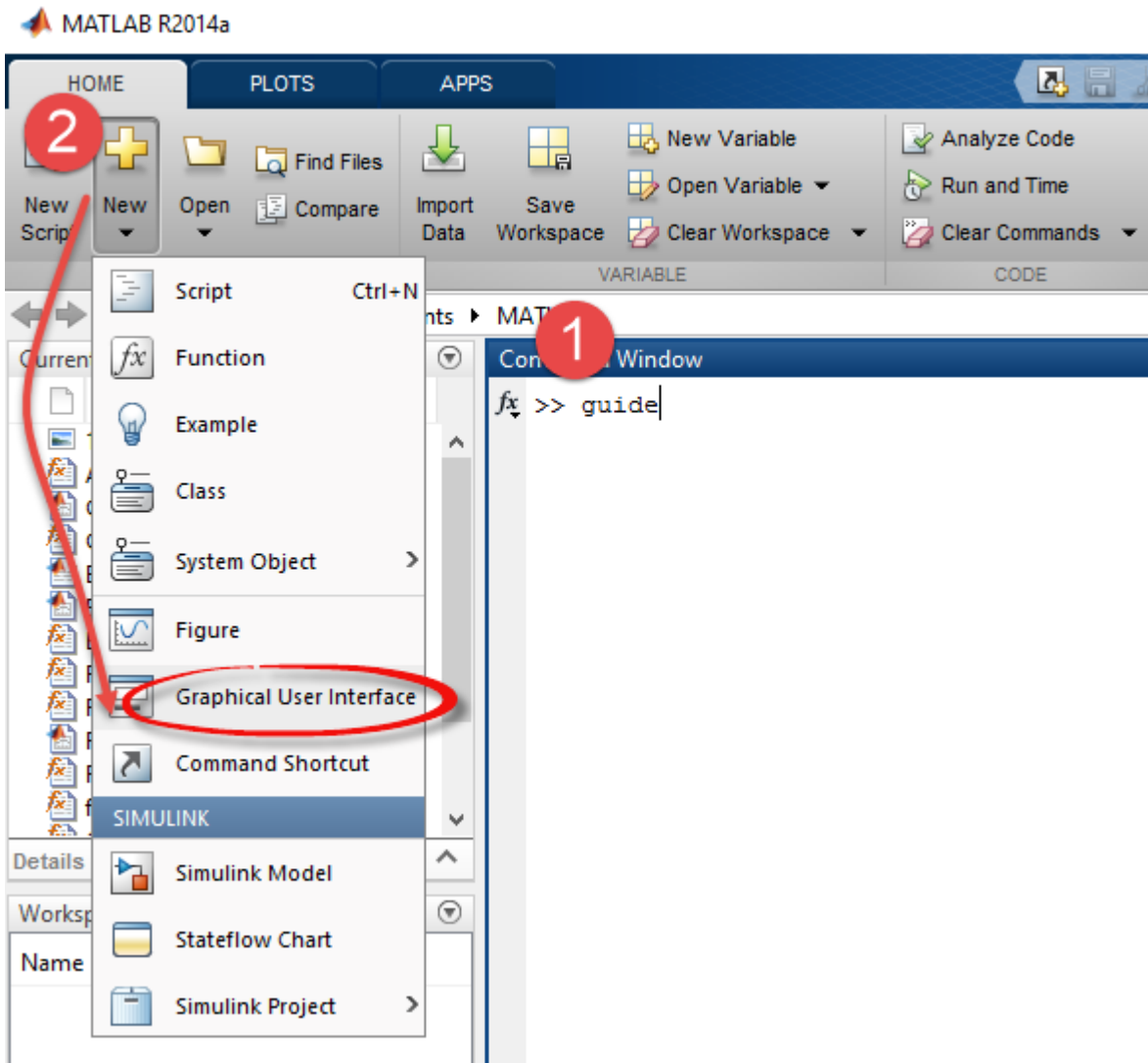
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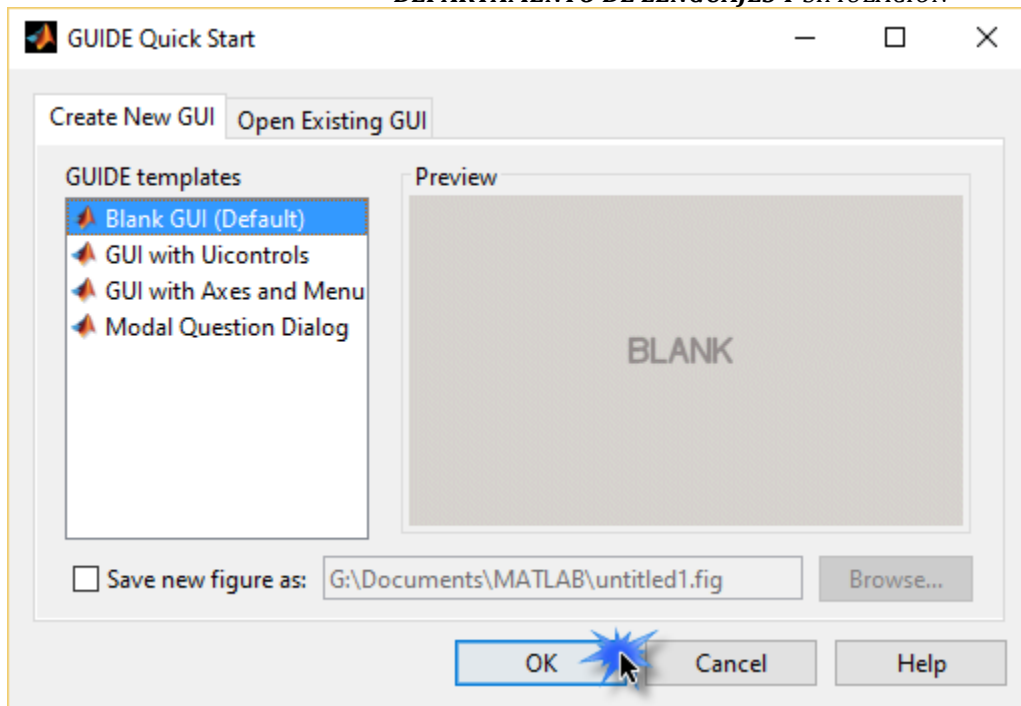
| | | | |
|--------------------------|---------------------------------|---------------|---|
| <i>Año Lectivo:</i> | 2016 | <i>Grupo:</i> | 2M1-Co, 2M2-Co, 2M3-Co, 2M4-Co, 2M5-Co |
| <i>Elaborado Por:</i> | Ing. Adil G. López | | |
| <i>Colaborador (es):</i> | Carolina Flores, Alberto Silva. | | |

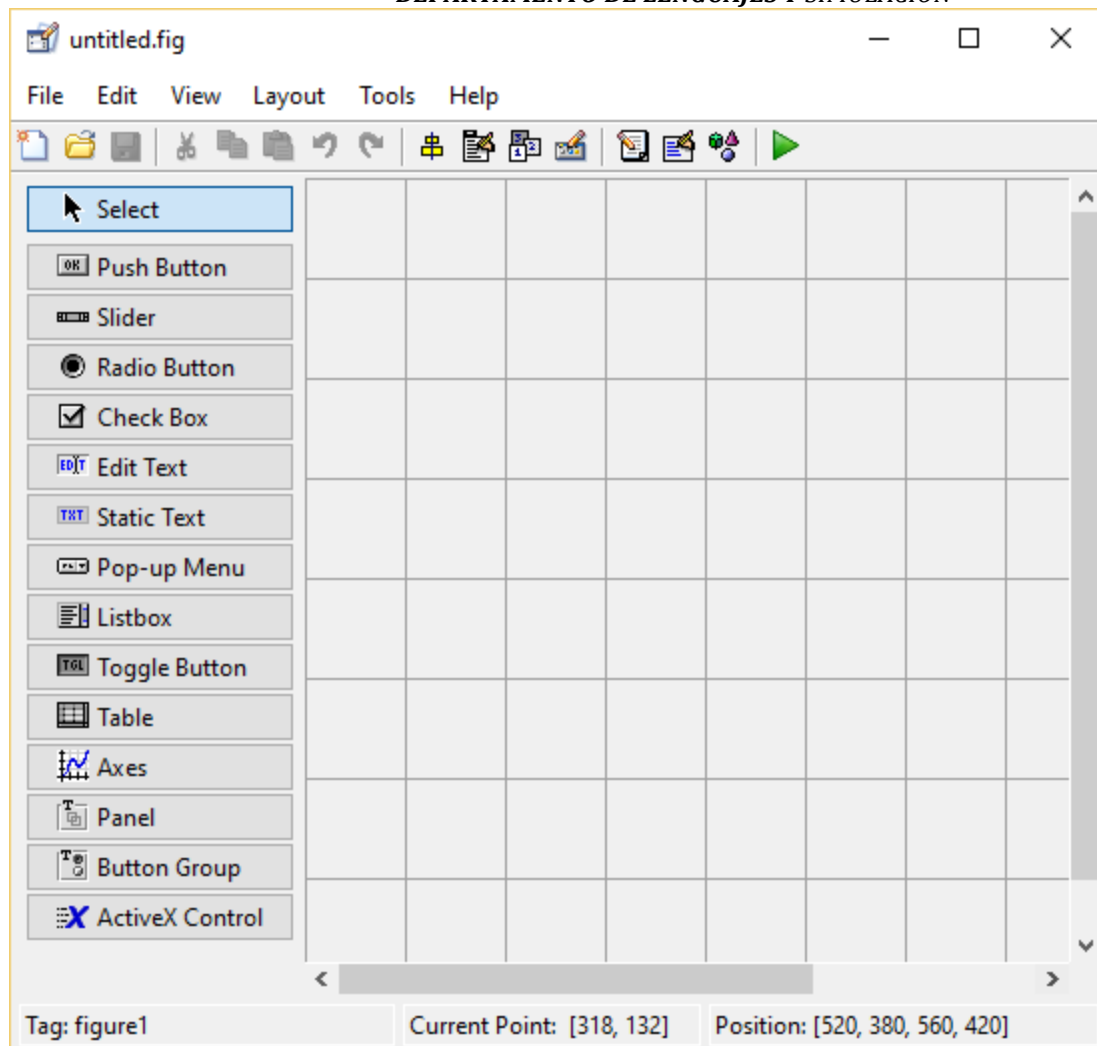
| | | | |
|----------------------------|--|----------------|-----------------|
| <i>Nº de Laboratorio</i> | 5 | <i>Unidad:</i> | I Antiderivadas |
| <i>Tema de Laboratorio</i> | ✓ Anti derivada de Funciones | | |
| <i>Objetivos</i> | ✓ Utilizar la interfaz gráfica de MATLAB, haciendo un enlace a scripts con funciones previamente programadas | | |

Ejemplo Numero 1:









The screenshot shows a Java Swing window titled "Funciones" with a light orange background. It contains three distinct panels, each with a title bar:

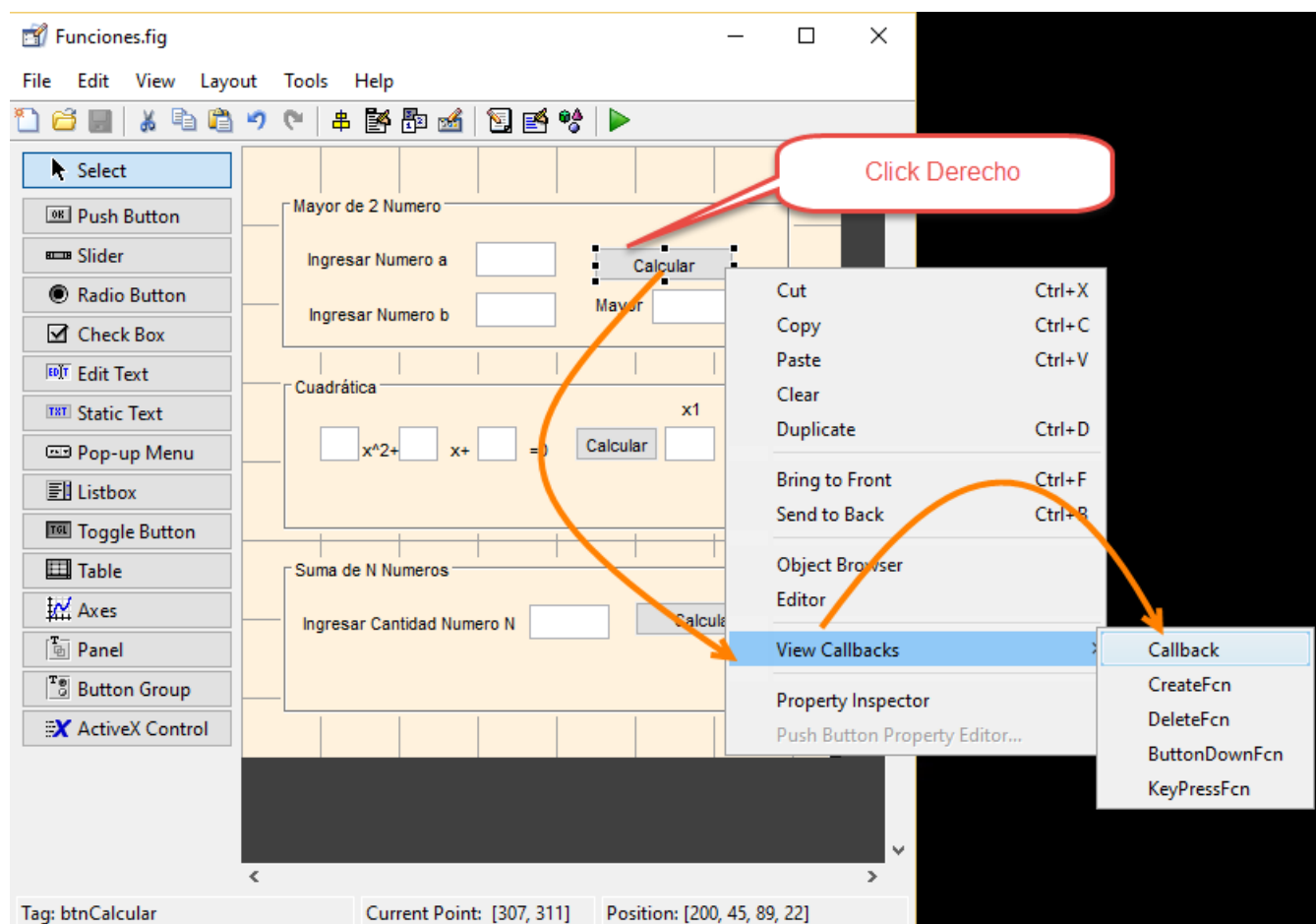
- Mayor de 2 Numero:** This panel has two input fields labeled "Ingresar Numero a" and "Ingresar Numero b". To the right of the first field is a "Calcular" button. To the right of the second field is a label "Mayor" followed by an output field.
- Cuadrática:** This panel displays the quadratic equation $x^2 + x + = 0$ with input fields for the coefficients. To the right of the equation is a "Calcular" button, followed by two output fields labeled "x1" and "x2".
- Suma de N Numeros:** This panel has a single input field labeled "Ingresar Cantidad Numero N" and a "Calcular" button to its right.

| Componente | Title | Tag |
|-------------|-------------------|--------------|
| Panel | Mayor de 2 Numero | |
| Panel | Cuadrática | |
| Panel | Suma de N Números | |
| Componente | String | Tag |
| Static Text | Ingresar Numero a | |
| Static Text | Ingresar Numero b | |
| Static Text | Mayor | |
| Edit Text | | txtNum1 |
| Edit Text | | txtNum2 |
| Edit Text | | txtMayor |
| Push Button | Calcular | btnCalcular1 |
| Static Text | x^2 | |
| Static Text | $x +$ | |
| Static Text | $= 0$ | |
| Static Text | $x1$ | |
| Static Text | $x2$ | |

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| | | |
|-------------|----------------------------|--------------|
| Edit Text | | txta |
| Edit Text | | txtb |
| Edit Text | | txtc |
| Edit Text | | txtx1 |
| Edit Text | | txtx2 |
| Push Button | Calcular | btnCalcular2 |
| Static Text | Ingresar Cantidad Numero N | |
| Edit Text | | txtCantidad |
| Push Button | Calcular | btnCalcular3 |

Código del evento callback del botón Calcular1

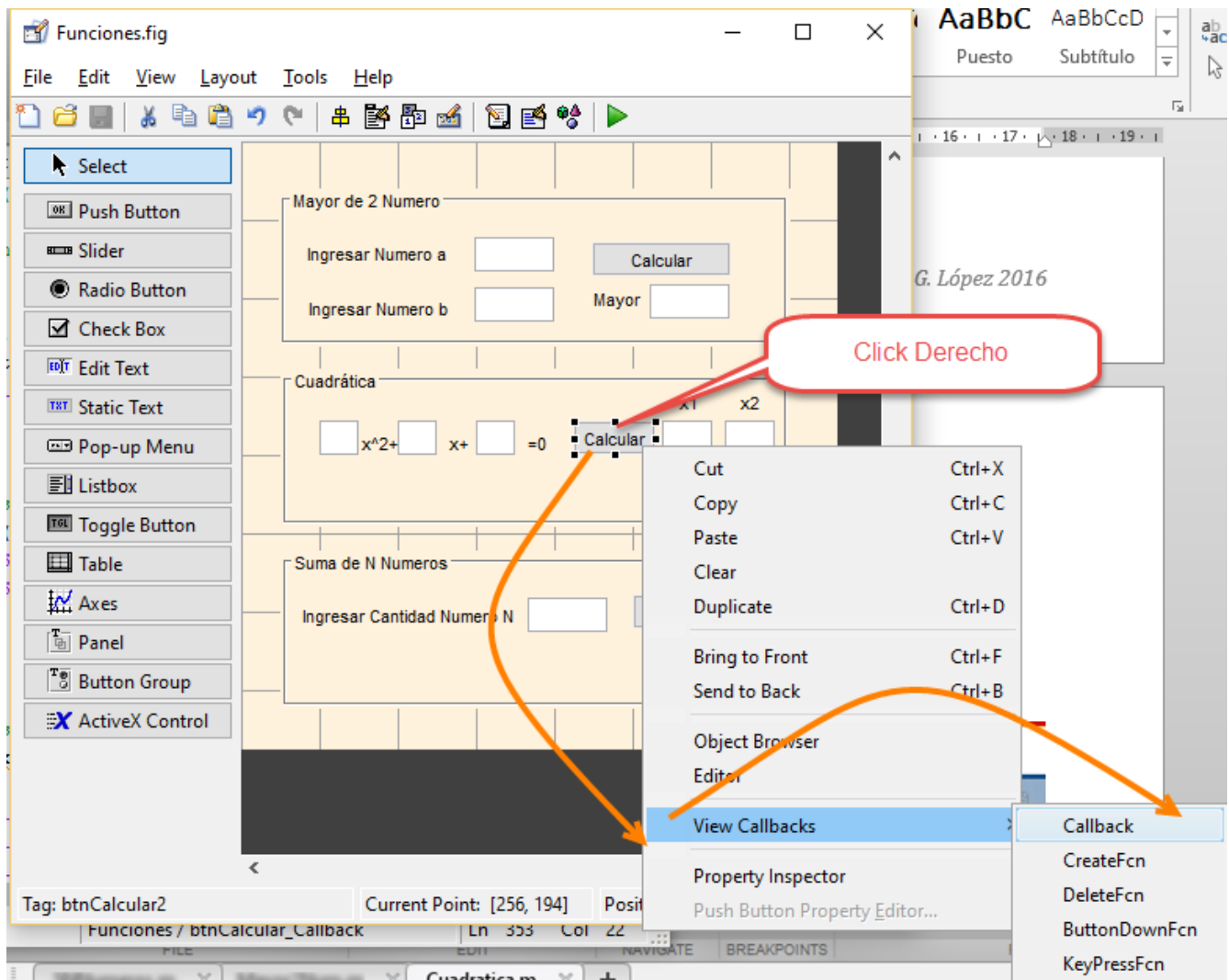


```

a=eval(get(handles.txtNum1, 'String'));
b=eval(get(handles.txtNum2, 'String'));
Mayor=Mayor2Num(a,b);
set(handles.txtMayor, 'String', Mayor);

```

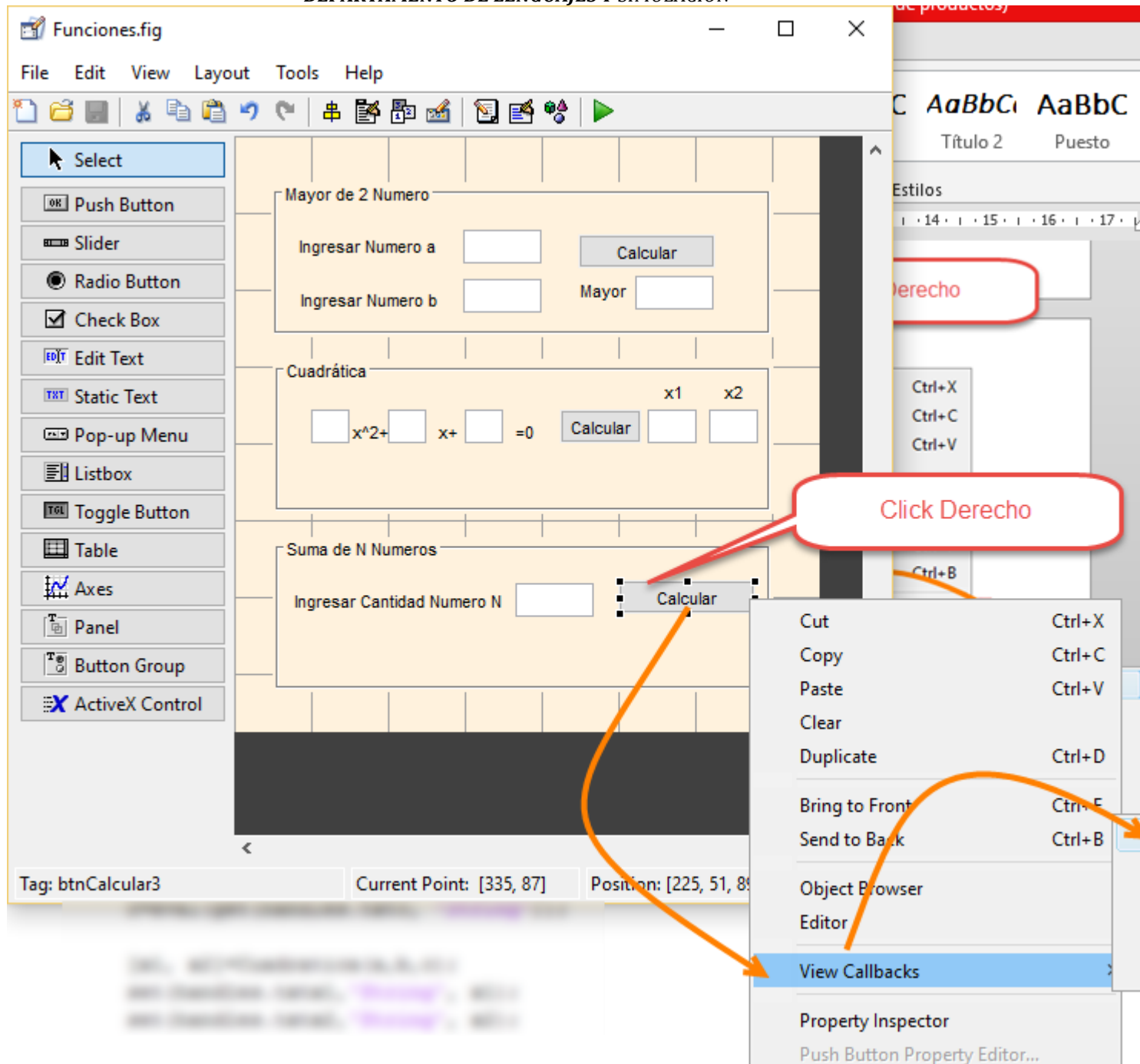
Codigo del evento CallBack del boton Calcular2



```
a=eval(get(handles.txta, 'String'));  
b=eval(get(handles.txtb, 'String'));  
c=eval(get(handles.txtc, 'String'));
```

```
[x1, x2]=Cuadratica(a,b,c);  
set(handles.txtx1, 'String', x1);  
set(handles.txtx2, 'String', x2);
```

Codigo del evento CallBack del botón Calcular3



```
n=eval (get(handles.txtCantidad, 'String')) ;  
SNNumeros (n) ;
```


Antiderivadas

Mayor de 2 Numero

Ingresar Numero a

23

Calcular

Ingresar Numero b

3

Mayor

23

Cuadrática

1

x^2

+

1

x

+

-3

=0

Calcular

x1

1.302

x2

-2.302

Suma de N Numeros

Ingresar Cantidad Numero N

|

Calcular