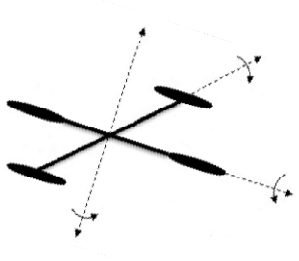
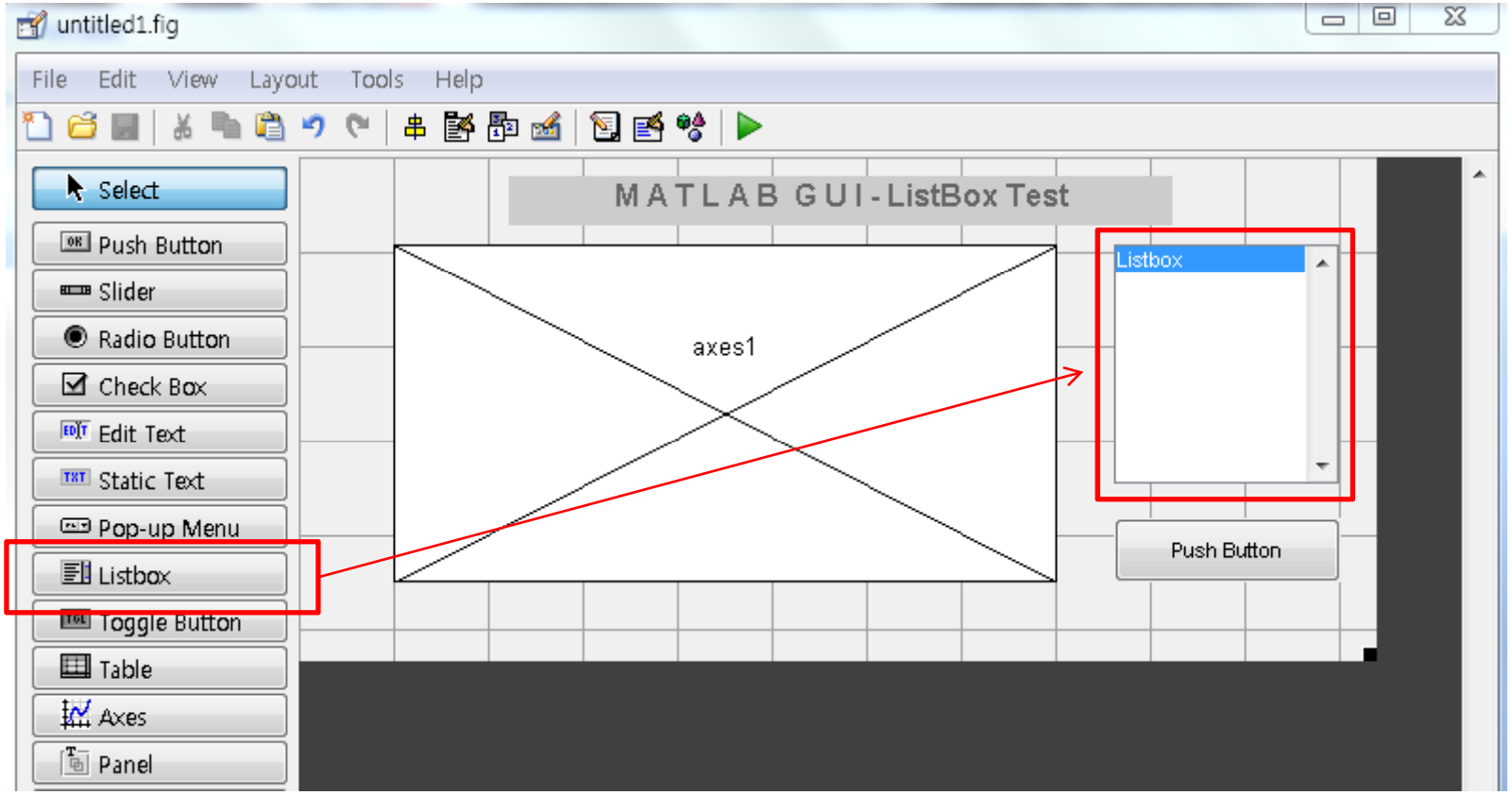
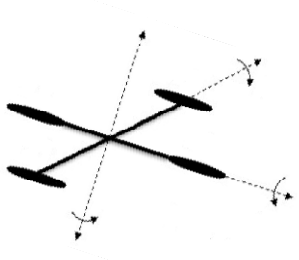
M A T L A B

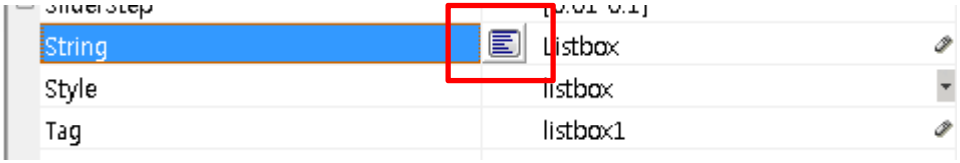
GUI 기초 – ListBox, Pop-up Menu

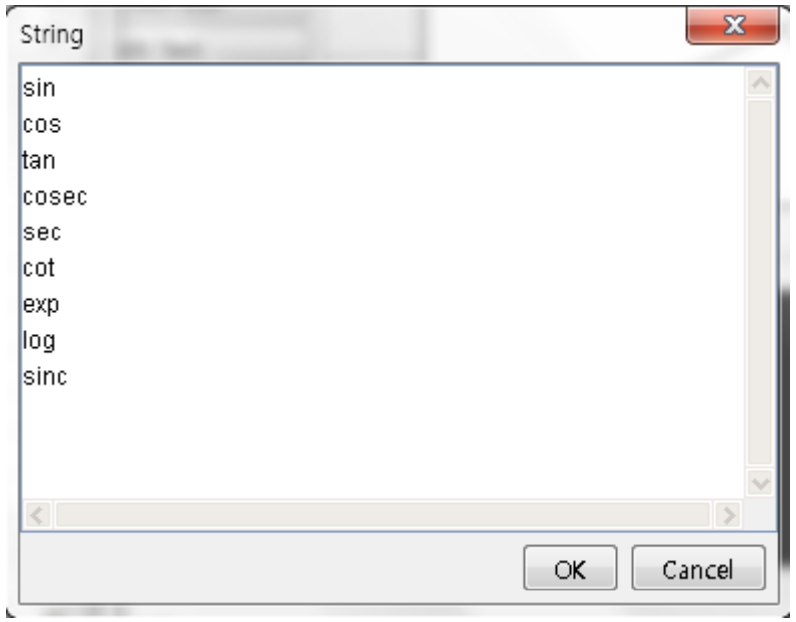


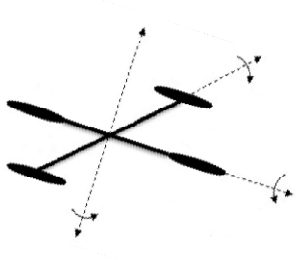
- List Box

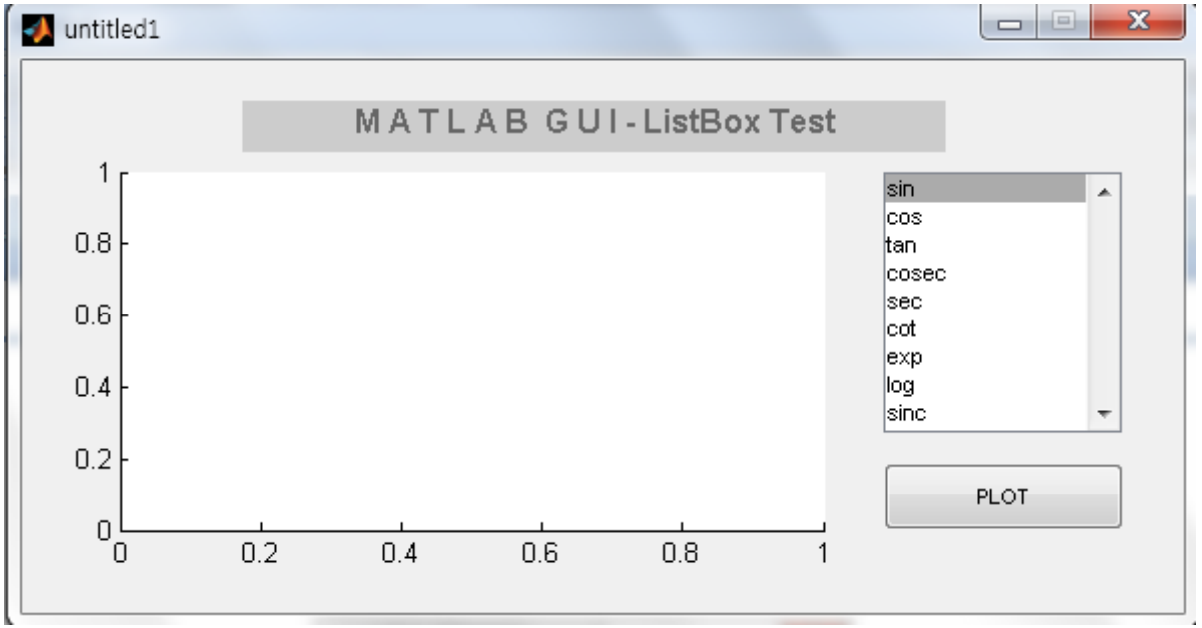

untitled1.fig
File Edit View Layout Tools Help
Select
Push Button
Slider
Radio Button
Check Box
Edit Text
Static Text
Pop-up Menu
Listbox
Toggle Button
Table
Axes
Panel
MATLAB GUI-ListBox Test
axes1
Listbox
Push Button

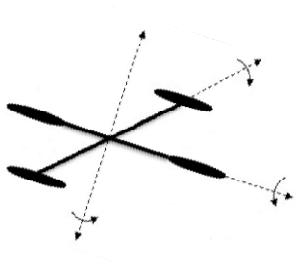



String
listbox
Style
listbox
Tag
listbox1


String
sin
cos
tan
cosec
sec
cot
exp
log
sinc
OK
Cancel



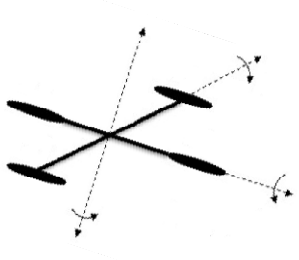

untitled1
MATLAB GUI-ListBox Test
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1
sin
cos
tan
cosec
sec
cot
exp
log
sinc
PLOT



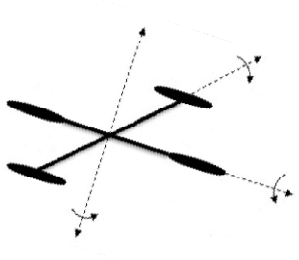
```
contents = cellstr(get(handles.listbox1, 'String'));

temp1 =  contents{get(handles.listbox1, 'Value')};
```

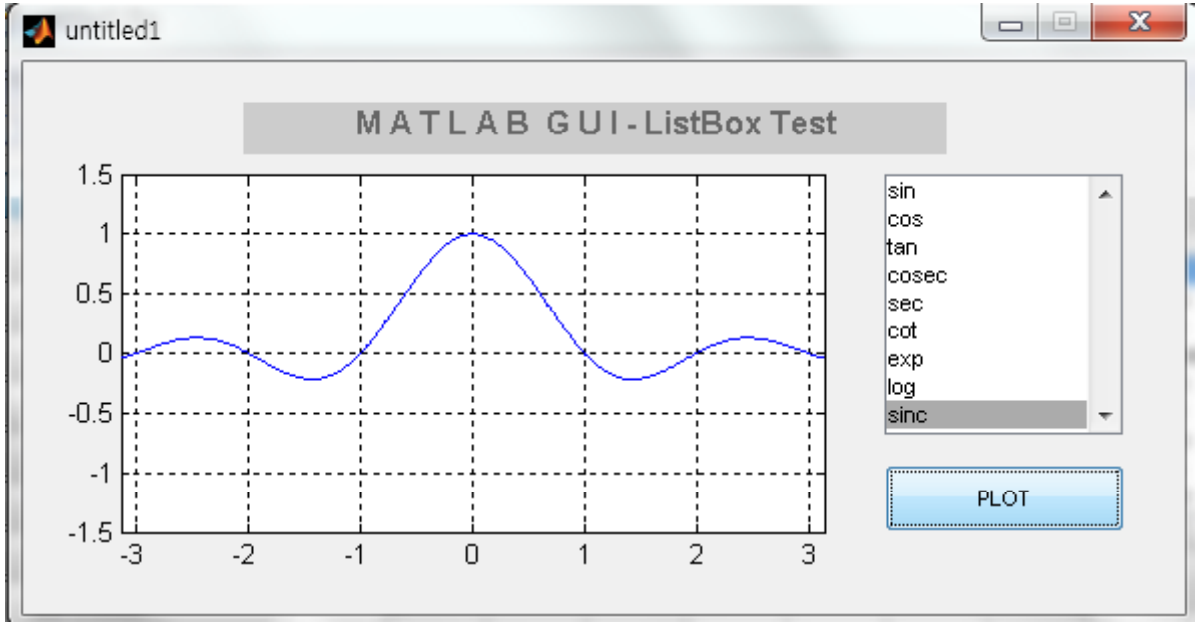
```
if strcmp(temp1, 'cosec')

    temp1 = 'csc';

elseif strcmp(temp1, 'log')

        t = 0:0.01:3.14;

end
```

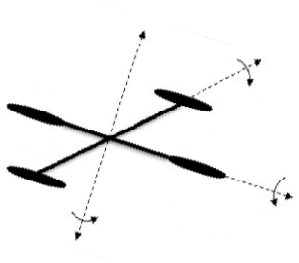
```
eval([' plot(handles.axes1, t, ' temp1 '(t) ) ']);
```



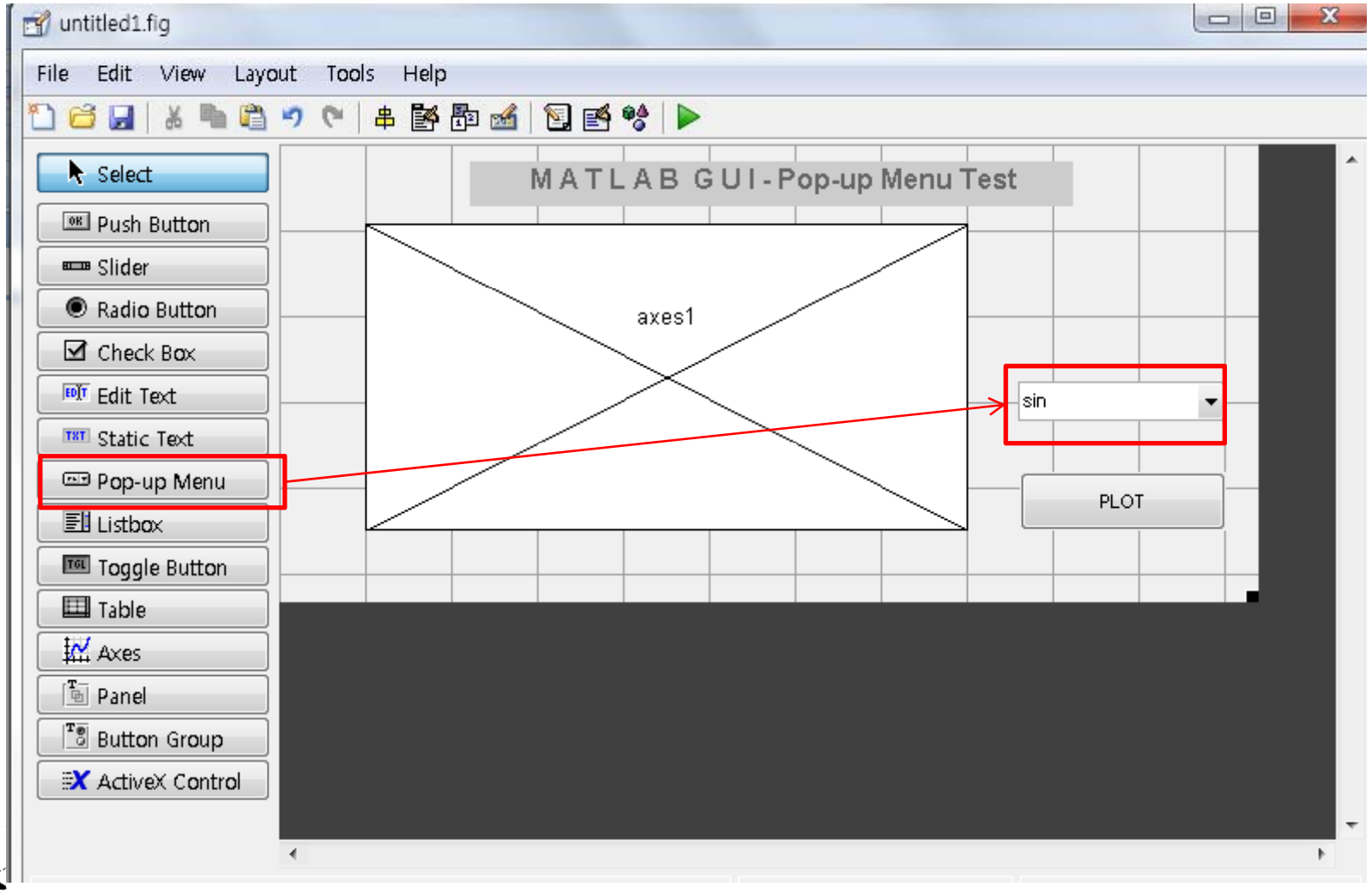
```
function pushbutton1_Callback(hObject, eventdata, handles)

t = -3.14:0.01:3.14;
contents = cellstr(get(handles.listbox1,'String'));
temp1 =  contents{get(handles.listbox1,'Value')};
if strcmp(temp1, 'cosec')
    temp1 = 'csc';
elseif strcmp(temp1, 'log')
        t = 0:0.01:3.14;
end
eval(['plot(handles.axes1, t, ' temp1 '(t) )'])
set(handles.axes1, 'xgrid', 'on', 'ygrid', 'on', 'xlim', [-3.14 3.14], 'ylim', [-1.5 1.5])
```

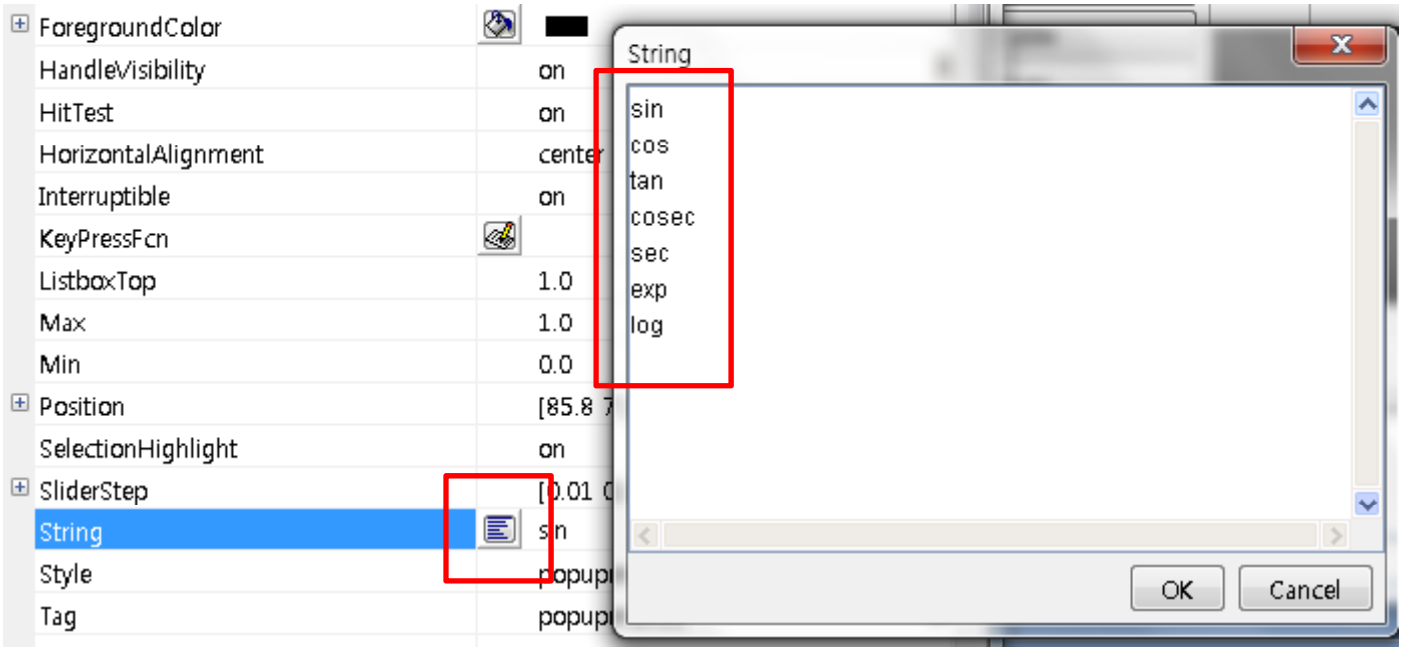


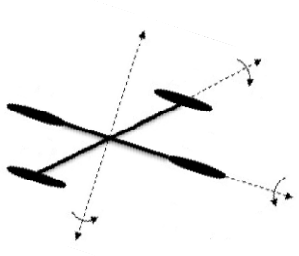

untitled1
MATLAB GUI - ListBox Test
1.5
1
0.5
0
-0.5
-1
-1.5
-3
-2
-1
0
1
2
3
sin
cos
tan
cosec
sec
cot
exp
log
sinc
PLOT



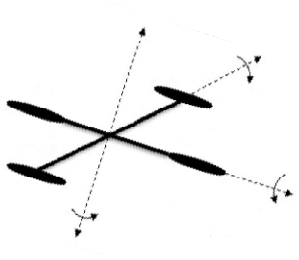
- Pop-up Menu

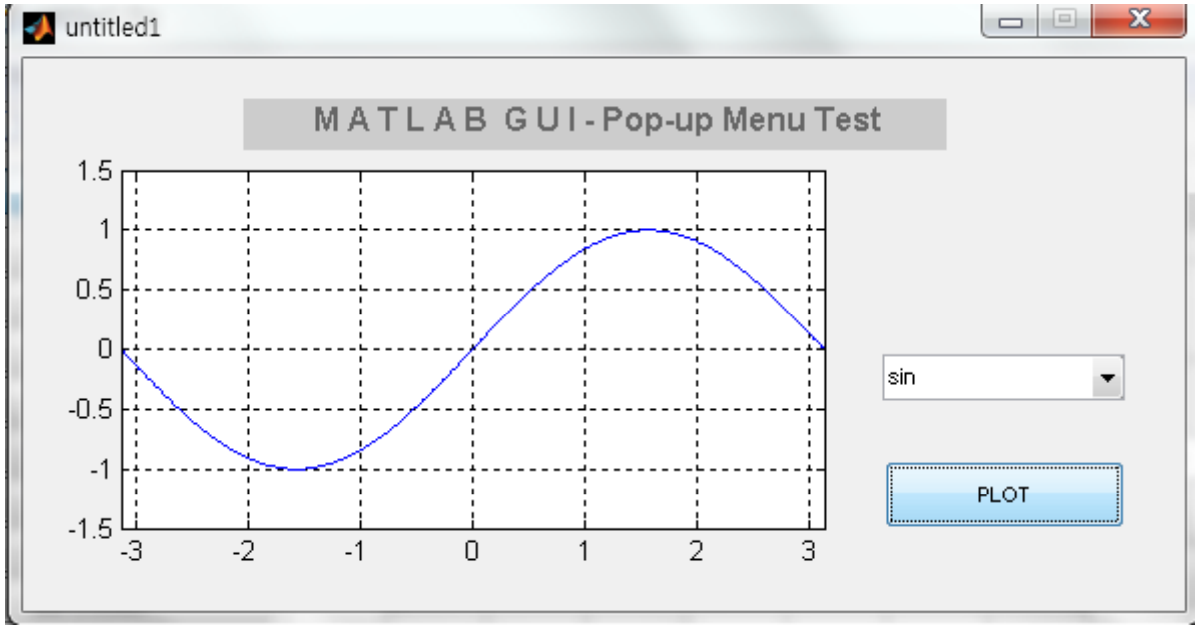
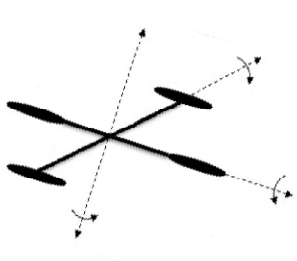

untitled1.fig
File Edit View Layout Tools Help
Select
Push Button
Slider
Radio Button
Check Box
Edit Text
Static Text
Pop-up Menu
Listbox
Toggle Button
Table
Axes
Panel
Button Group
ActiveX Control
MATLAB GUI-Pop-up Menu Test
axes1
sin
PLOT


ForegroundColor
HandleVisibility
on
HitTest
on
HorizontalAlignment
center
Interruptible
on
KeyPressFcn
ListboxTop
1.0
Max
1.0
Min
0.0
Position
SelectionHighlight
on
SliderStep
String
sin
Style
Tag
String
sin
cos
tan
cosec
sec
exp
log
OK
Cancel



```
function pushbutton1_Callback(hObject, eventdata, handles)

t = -3.14:0.01:3.14;
contents = cellstr(get(handles.popupmenu1,'String'));
temp1 =  contents{get(handles.popupmenu1,'Value')};
if strcmp(temp1, 'cosec')
    temp1 = 'csc';
elseif strcmp(temp1, 'log')
        t = 0:0.01:3.14;
end
eval(['plot(handles.axes1, t, ' temp1 '(t) )'])
set(handles.axes1, 'xgrid', 'on', 'ygrid', 'on', 'xlim', [-3.14 3.14], 'ylim', [-1.5 1.5])
```




untitled1
MATLAB GUI - Pop-up Menu Test
1.5
1
0.5
0
-0.5
-1
-1.5
-3
-2
-1
0
1
2
3
sin
PLOT