TEST CASE: Color panel - Background

|  |  |  |
| --- | --- | --- |
| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Selected the Color menu at the top of the application, select Change Colors | Color Panel window should appear |
| 2 | Click the > button next to BACKGROUND\_COLOR | Choose color panel should appear |
| 3 | Select a shade of green and click ok | Choose color panel disappears, the box next to background color now shows the selected shade of green |
| 4 | Click Save | The Color Panel disappears, the background color of the plotter should now be the selected shade of green |

Method of Testing: Manual

TEST CASE: Color panel - Background

Method of Testing: Manual

|  |  |  |
| --- | --- | --- |
| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Selected the Color menu at the top of the application, select Change Colors | Color Panel window should appear |
| 2 | Click the > button next to PANEL\_COLOR | Choose color panel should appear |
| 3 | Select a shade of blue and click ok | Choose color panel disappears, the box next to panel color now shows the selected shade of blue |
| 4 | Click Save | The Color Panel disappears, the side panel color of the plotter should now be the selected shade of blue |

TEST CASE: Color panel - Line

Method of Testing: Manual

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| --- | --- | --- |
| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Selected the Color menu at the top of the application, select Change Colors | Color Panel window should appear |
| 2 | Click the > button next to LINE\_COLOR | Choose color panel should appear |
| 3 | Select a shade of red and click ok | Choose color panel disappears, the box next to line color now shows the selected shade of red |
| 4 | Click Save | The Color Panel disappears, the color of the main line should now be the selected shade of red |

TEST CASE: Color panel – Line2

Method of Testing: Manual

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| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Selected the Color menu at the top of the application, select Change Colors | Color Panel window should appear |
| 2 | Click the > button next to LINE\_2\_COLOR | Choose color panel should appear |
| 3 | Select a shade of purple and click ok | Choose color panel disappears, the box next to line 2 color now shows the selected shade of purple |
| 4 | Click Save | The Color Panel disappears |
| 5 | Enter sin(x) in the displayed function input and click draw | A sin(x) line is displayed |
| 6 | Selected the DF button on the right | The DF line should show with the selected shade of purple |

TEST CASE: Color panel – Axis

Method of Testing: Manual

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| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Selected the Color menu at the top of the application, select Change Colors | Color Panel window should appear |
| 2 | Click the > button next to AXIS\_COLOR | Choose color panel should appear |
| 3 | Select a shade of yellow and click ok | Choose color panel disappears, the box next to panel color now shows the selected shade of yellow |
| 4 | Click Save | The Color Panel disappears, the color of the axis lines should now be the selected shade of yellow |

TEST CASE: Color panel – Line 3D

Method of Testing: Manual

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| --- | --- | --- |
| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Selected the Color menu at the top of the application, select Change Colors | Color Panel window should appear |
| 2 | Click the > button next to LINE\_3D\_COLOR | Choose color panel should appear |
| 3 | Select a shade of blue and click ok | Choose color panel disappears, the box next to line 3D color now shows the selected shade of blue |
| 4 | Click Save | The Color Panel disappears |
| 5 | Click the Visualization menu at the top and select Cartesian 3D | The Cartesian 3D view is shown with the 3D line as the selected shade of blue |

TEST CASE: Visualization menu

Method of Testing: Manual

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| --- | --- | --- |
| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Selected the Visualization menu at the top of the application, select Cartesian 2D | The application should show a two-dimensional plotter with a y=sin(x) function as the default graph (this is a wave graph) |
| 2 | Selected the Visualization menu again and select Polar 2D | The application should show a two-dimensional plotter with a r=2 function as the default graph (this is a circular graph) |
| 3 | Selected the Visualization menu again and select Cartesian 3D | The application should show a three-dimensional plotter with three axes (x, y, and z) and z = sin(x+y) as the default graph |