TEST CASE: Integral panel

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| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Open Integral Panel through the Integral button to the right or through the “Do” menu | Integral Box Should Appear |
| 2 | Enter x1 and x2 | Values should appear accurately within the box |
| 3 | Select Gauss and hit Recalculate | Correct result in “Res” |
| 4 | Select Trapezium and hit Recalculate | Correct result in “Res” |
| 5 | Select Simpson and hit Recalculate | Correct result in “Res” |
| 6 | Run an MDX query to get the average Response time for the Cluster for that day. | The result of the MDX query should match the average response time calculated from the SQL query results. |

Method of Testing: Manual

TEST CASE: DF

Method of Testing: Black Box Manual

TEST CASE: Advanced Calculator Object (Integral and DF)

Method of Testing: Automated WhiteBox via Eclipse

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| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Repeat three times with varying functions | Normal function should appear on graph |
| 2 | Hit Show DF tab on the right side or use the “DO” menu | Proper differential function should appear on graph |
| 3 | Hit No DF tab on the right side or through the “DO” menu | Function should disappear from graph |

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| **S.N** | **EXECUTION STEPS** | **EXPECTED RESULTS** |
| 1 | Run JUnit tests | All cases should pass |
| 2 | Run EclEmma | EclEmma results should show 85% of cases |