**Group 16 – Plotter**

**Sean Clements**

**Aaron Hulseman**

**Rudy Sanchez**

**Bugs & Enhancements**

**Date Submitted: 11/29/2016**

**Bugs Detected**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Bug Short Title** | **Priority (1-3)** | **Date Found** | **Reported By** |
| **B01** |  |  |  |  |
| Description | Range of function vs range of derivative **2** **11/27/2016 Sean Clements** | | | |
| Desired Operation | If function isn’t in range, but derivative is, should still display | | | |
| Cause | Calculator most likely doesn’t account for function out of range | | | |
| Proposed Fix | Draw function even though function isn’t in entire range | | | |
|  |  | | | |
| **B02** |  |  |  |  |
| Description | No Polynomial support **3**  **11/27/2016 Sean Clements** | | | |
| Desired Operation | Program doesn’t appear to support polynomial functions | | | |
| Cause | Perhaps this is not a bug, but just is unsupported | | | |
| Proposed Fix | Allow program to work with polynomials | | | |
|  |  | | | |
| **B03** |  |  |  |  |
| Description | Could not recognize e^x **3** **11/27/2016 Sean Clements** | | | |
| Desired Operation | Tried inputting function several different ways | | | |
| Cause | Calculator perhaps does not support e^x | | | |
| Proposed Fix | Make a more robust function reader to allow these functions | | | |
|  |  |  |  |  |
| **B04** |  |  |  |  |
| Description | Simpson Integral not correct | **1** | **11/27/2016** | **Sean Clements** |
| Desired Operation | The Simpson integral calculation is incorrect |  |  |  |
| Cause | Most likely an error in algorithm |  |  |  |
| Proposed Fix | Rework algorithm to display correct result |  |  |  |
|  |  |  |  |  |
| **B05** |  |  |  |  |
| Description | Trapezium Integral not correct | **1** | **11/27/2016** | **Sean Clements** |
| Desired Operation | The Trapezium integral calculation is incorrect |  |  |  |
| Cause | Most likely an error in algorithm |  |  |  |
| Proposed Fix | Rework algorithm to display correct result |  |  |  |
|  |  |  |  |  |
| **B06** |  |  |  |  |
| Description | Gauss Integral not correct | **2** | **11/27/2016** | **Sean Clements** |
| Desired Operation | The Gauss integral calculation is incorrect |  |  |  |
| Cause | Most likely an error in algorithm |  |  |  |
| Proposed Fix | Rework algorithm to display correct result |  |  |  |
|  |  |  |  |  |
| **B07** |  |  |  |  |
| Description | Integral panel returns “-0” when you try to calculate an integral from right to left. | **2** | **11/29/2016** | **Aaron Hulseman** |
| Desired Operation | Program should either calculate the integral or display an error message. |  |  |  |
| Cause | The integral methods don’t determine which bound is greater before performing calculations. |  |  |  |
| Proposed Fix |  |  |  |  |
|  |  |  |  |  |
| **B08** |  |  |  |  |
| Description | When the program is commanded to calculate the integral of a function that is non-integrable, it displays a square in the resTextField. | **3** | **11/29/2016** | **Aaron Hulseman** |
| Desired Operation | It should display an error message saying the it is impossible to integrate the function |  |  |  |
| Cause |  |  |  |  |
| Proposed Fix | Maybe have the Calculator class keep a list of non-integrable functions to cross check when it performs the calculations |  |  |  |
|  |  |  |  |  |
| **B09** |  |  |  |  |
| Description |  |  |  |  |
| Desired Operation |  |  |  |  |
| Cause |  |  |  |  |
| Proposed Fix |  |  |  |  |
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| **B10** |  |  |  |  |
| Description |  |  |  |  |
| Desired Operation |  |  |  |  |
| Cause |  |  |  |  |
| Proposed Fix |  |  |  |  |
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| **B11** |  |  |  |  |
| Description |  |  |  |  |
| Desired Operation |  |  |  |  |
| Cause |  |  |  |  |
| Proposed Fix |  |  |  |  |
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| **B12** |  |  |  |  |
| Description |  |  |  |  |
| Desired Operation |  |  |  |  |
| Cause |  |  |  |  |
| Proposed Fix |  |  |  |  |
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**Enhancements Proposed**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ID** | **Enhancement Short Title** | **Priority (1-3)** | **Date Reported** | **Reported By** |
| **E01** |  |  |  |  |
| Description | Support for more robust functions **3 11/27/2016 Sean Clements** | | | |
| Desired Operation | Would like support for polynomials, e, etc. | | | |
| Cause |  | | | |
| Proposed Fix | Create more functionality for robust function support | | | |
|  |  | | | |
| **E02** |  |  |  |  |
| Description | Readme  **2 11/27/2016 Sean Clements** | | | |
| Desired Operation | An error is often thrown suggesting to look at readme | | | |
| Cause | No readme available | | | |
| Proposed Fix | Create a readme for users for how to input functions | | | |
|  |  | | | |
| **E03** |  |  |  |  |
| Description | Higher detailed errors  **3 11/27/2016 Sean Clements** | | | |
| Desired Operation | When an error occurs, display why the error occurred | | | |
| Cause | When inputting invalid functions | | | |
| Proposed Fix | Display why the error was thrown | | | |
|  |  |  |  |  |
| **E04** |  |  |  |  |
| Description | Explain Gauss integral | **3** | **11/27/2016** | **Sean Clements** |
| Desired Operation | There are many ways Gauss integral can be done |  |  |  |
| Cause | This made it hard to test |  |  |  |
| Proposed Fix | Explain which Gaussian integral this is |  |  |  |
|  |  |  |  |  |
| **E05** |  |  |  |  |
| Description | Export data panel doesn’t seem to do anything upon successful save even though it does. | **3** | **11/29/2016** | **Aaron Hulseman** |
| Desired Operation | It should exit the panel and confirm that the save was successful to the user. |  |  |  |
| Cause | There is no exit() statement or call to a new dialog box at the end of the save() method |  |  |  |
| Proposed Fix | Add these statements to the ExportDataPanel class |  |  |  |
|  |  |  |  |  |
| **E06** |  |  |  |  |
| Description | When saving a file, the dialog box lists “open” as an option instead of “save” | **3** | **11/29/2016** | **Aaron Hulseman** |
| Desired Operation | The button should say “save” |  |  |  |
| Cause | The text of the button was probably left on its default setting. |  |  |  |
| Proposed Fix | Simply change the text value of the button to “save” |  |  |  |
|  |  |  |  |  |
| **E07** |  |  |  |  |
| Description | The text boxes in the color panel allow the user to type in them. | **2** | **11/29/2016** | **Aaron Hulseman** |
| Desired Operation | These boxes should only display color. Typing text should be disallowed. |  |  |  |
| Cause | The text property is set to true or enabled. |  |  |  |
| Proposed Fix | Disable the text property of the text boxes |  |  |  |
|  |  |  |  |  |
| **E08** |  |  |  |  |
| Description | Saving the image doesn’t include the displayed function. | **3** | **11/29/2016** | **Rudy Sanchez** |
| Desired Operation | Include the displayed function in the image. |  |  |  |
| Cause | Non-inclusion of the buildUpPanel where the Displayed function textbox resides when saving. |  |  |  |
| Proposed Fix | Include the buildUpPanel in the save function. |  |  |  |
|  |  |  |  |  |
| **E09** |  |  |  |  |
| Description | Click to drag graph doesn’t work. | **3** | **11/29/2016** | **Rudy Sanchez** |
| Desired Operation | Graph moves on click and drag. |  |  |  |
| Cause | No code provided in the mouseDragged method in Visualizer class. |  |  |  |
| Proposed Fix | Code the method mouseDragged for clicking and dragging. |  |  |  |
|  |  |  |  |  |
| **E10** |  |  |  |  |
| Description |  |  |  |  |
| Desired Operation |  |  |  |  |
| Cause |  |  |  |  |
| Proposed Fix |  |  |  |  |
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| **E11** |  |  |  |  |
| Description |  |  |  |  |
| Desired Operation |  |  |  |  |
| Cause |  |  |  |  |
| Proposed Fix |  |  |  |  |
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| **E12** |  |  |  |  |
| Description |  |  |  |  |
| Desired Operation |  |  |  |  |
| Cause |  |  |  |  |
| Proposed Fix |  |  |  |  |
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**Fixes (Bugs and Enhancements) Targeted For Implementation**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ID** | **Short Title** | **Priority (1-3)** | **Implementation Complete Date** | **Assigned To** | **System Test Date** |
| **B04** | **Simpson Integral** | **1** | **12/02/2016 - tentative** | **Sean Clements** | **12/03/2016** |
| **B05** | **Trapezium Integral** | **1** | **12/02/2016 - tentative** | **Sean Clements** | **12/03/2016** |
| **E02** | **Readme** | **2** | **12/02/2016 - tentative** | **Sean Clements** | **12/03/2016** |
| **E05** | **ExportDataPanelButton** | **3** | **12/02/2016** | **Aaron Hulseman** | **12/03/2016** |
| **E06** | **SaveImageButton** | **3** | **12/02/2016** | **Aaron Hulseman** | **12/03/2016** |
| **E07** | **ColorPanelTextFields** | **2** | **12/02/2016** | **Aaron Hulseman** | **12/03/2016** |