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CMSC-203 - Lab 10 - Graphing a Function

Task #2: f(x) = x^3 - 7\*x^2 + 15\*x - 9

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| Left Extent | Right Extent | Graph | Observation |
| -10 | 0 |  | When the function reaches to 0 on the x-axis, the graph is getting close to cross through the y-axis and reduce the velocity. |
| 0 | 10 |  | After calculating to equal 0, x = 1 and 3. With the x^3 at the beginning, the graph goes up to infinity. |
| -5 | 5 |  | For showing both sides when the graph treats itself like a basic x^3, the graph goes from negative infinity to infinity. |

Task #3: f(x) = sin(1/x)

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| Left Extent | Right Extent | Graph | Observation |
| -5 | 5 |  | The graph goes down and up many times until x = 0 because it does not exist. Nothing can divide by 0. |
| -1 | 1 |  | The graph goes down and up many times until x = 0 because it does not exist. Nothing can divide by 0. |
| -1 | 0 |  | When x gets closer to 0, the graph constantly goes up and down, and the graph is really hard to tell the y-values. |
| 0 | 1 |  | When x is about to increase from 0, the graph constantly goes down and up, and the graph basically flips around 180°. |