Algebraic Calculator Project Vision and SCope document

November 13, 2017

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# Overview

## Project Background and Description

The purpose of this project is to build an algebraic calculator utilize any common programming language that is able to compute complex calculations related algebra. I.E. PEMDAS, polynomials, quadratic equations, etc

## Project Scope

The desired scope of the project will be to construct an algebraic calculator that can compute most, if not all, algebraic expressions.

## High-Level Requirements

The algebraic calculator must be able to catch syntax errors, and report the errors.

The new system must include the following:

* Console interface
* Clear error explanations
* Clear and precise answers
* Step by step output to resolution

## Affected Parties

The only affect parties will be the members involved in the completion of the project.

## Specific Exclusions from Scope

The calculator will not include output matrices, Graphical outputs, Graphical user interface.

## Implementation Plan

The algebraic calculator will be built from existing code. The existing code will be modified where necessary to facilitate the project requirements. Should there be a need to write the calculator from scratch, that will be the next approach.

## High-Level Timeline/Schedule

With existing work schedules and class loads taken into consideration, the project is scheduled to be completed before the end of the Fall Semester.