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Vision and Scope Document

1. **Problem Statement**

a. Project Background

- Algebraic expressions can be difficult to solve without the help of a calculator, we intend to introduce and calculator that can help ease the process of solving algebraic expressions.

b. Stakeholders

- Professor Khan, wants the calculator to solve algebraic expression with up to many variables.

c. Users

- The users for this calculator are students, professors or anyone trying to solve an algebraic expression that needs assistance from a calculator.

d. Risks

- Potential drawbacks for our project are: sickness, scheduling conflicts and code merger.

e. Assumptions

- Our assumption for resources is that Microsoft Visual Studio will always be accessible since its a free download.

**2. Vision of the Solution**

a. Vision Statement

- To create a calculator to help students, professors and any one attempting to solve an algebraic expression with more ease

b. List of Features

- Compute adding, subtracting, dividing, multiplication

- Compute square roots and exponential expressions

- Computer area, volume

- Compute log and trigonometric expressions

- Compute problems with many variables

- Allow functions to have polymorphism

- All output goes to the command line

- Prompt user for algebraic expressions, through a menu system