Adam Maher

Bailey Popp

Matthew Teweleit

Phase 1

**Question 1:**

The major advantage to having the gravity constant placed into a struct which is then passed into multiple functions, is that if the gravity constant needed to be changed it would only have to be changed in one place. For instance, if we were going to run these scripts and functions as if rover were on earth, we would only have to change the 3.72 to a 9.81 in the structure. The new value would immediately replace the old value when the field is called within a script or function. This is the most convenient way to define and use the gravitational constant within the codes used for the rover, so we would not have done that any differently.

**Question 2:**

If we call F\_gravity using a terrain slope of 110 degrees, an error occurs. The error reads “All values of terrain\_angle must be between -75 and +75 degrees.” The error occurring is desirable behavior because the terrain slope is greater than 75 degrees, and our code was written intending to display an error if that slope angle is not in between -75 and 75 degrees.

**Question 3:**