

# Chapter 1

## A Volumetric Approach to Heron-Rota-Welsh Conjecture

### 1.1 $\alpha$ and $\beta$ have Pseudo-Cubical Interpretations

**TO DO:** Show  $\alpha$  and  $\beta$  are pseudo-cubical

#### 1.1.1 A (potentially) fun relation to the simplex

**TO DO:** Check the thing about  $\alpha$  living in the negative simplex and whatnot. I think it maybe does work out!

#### 1.1.2 What else do I need to show???

**TO DO:** I'm sure more stuff goes here. Figure out what it is