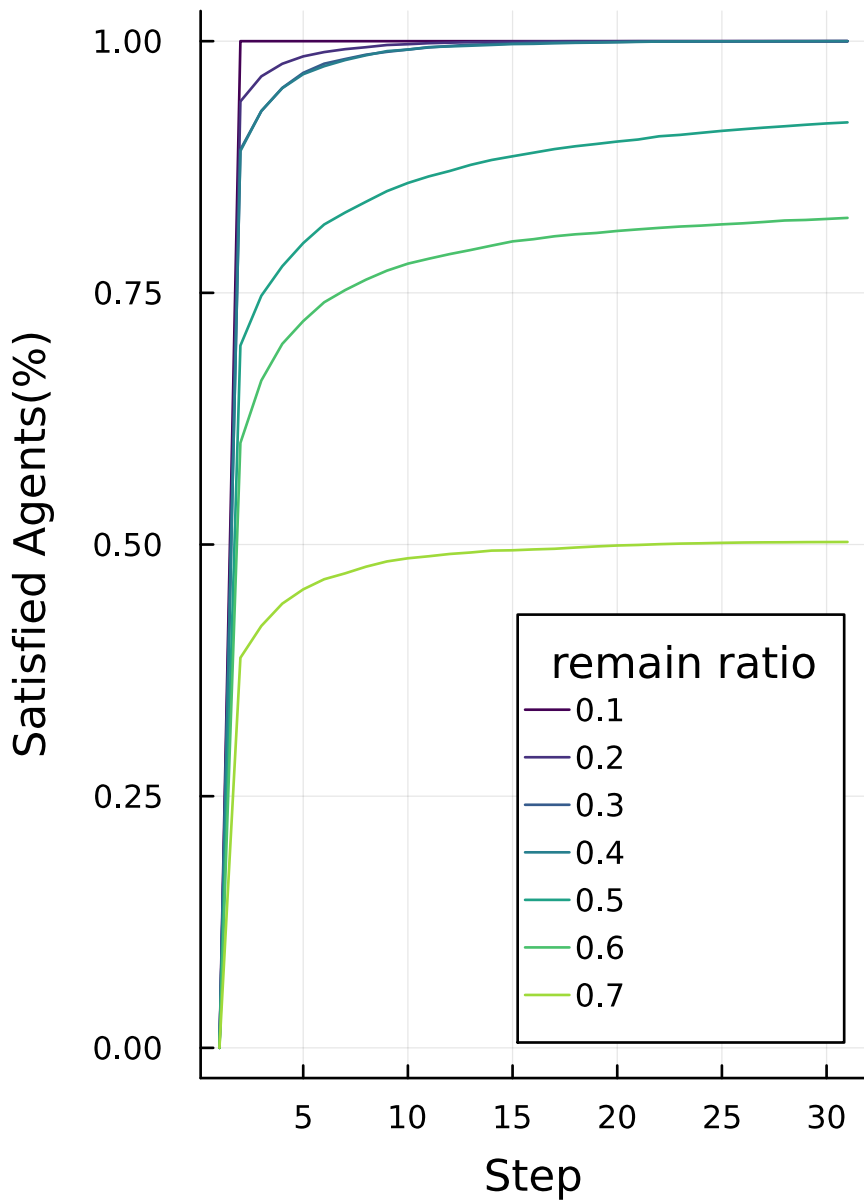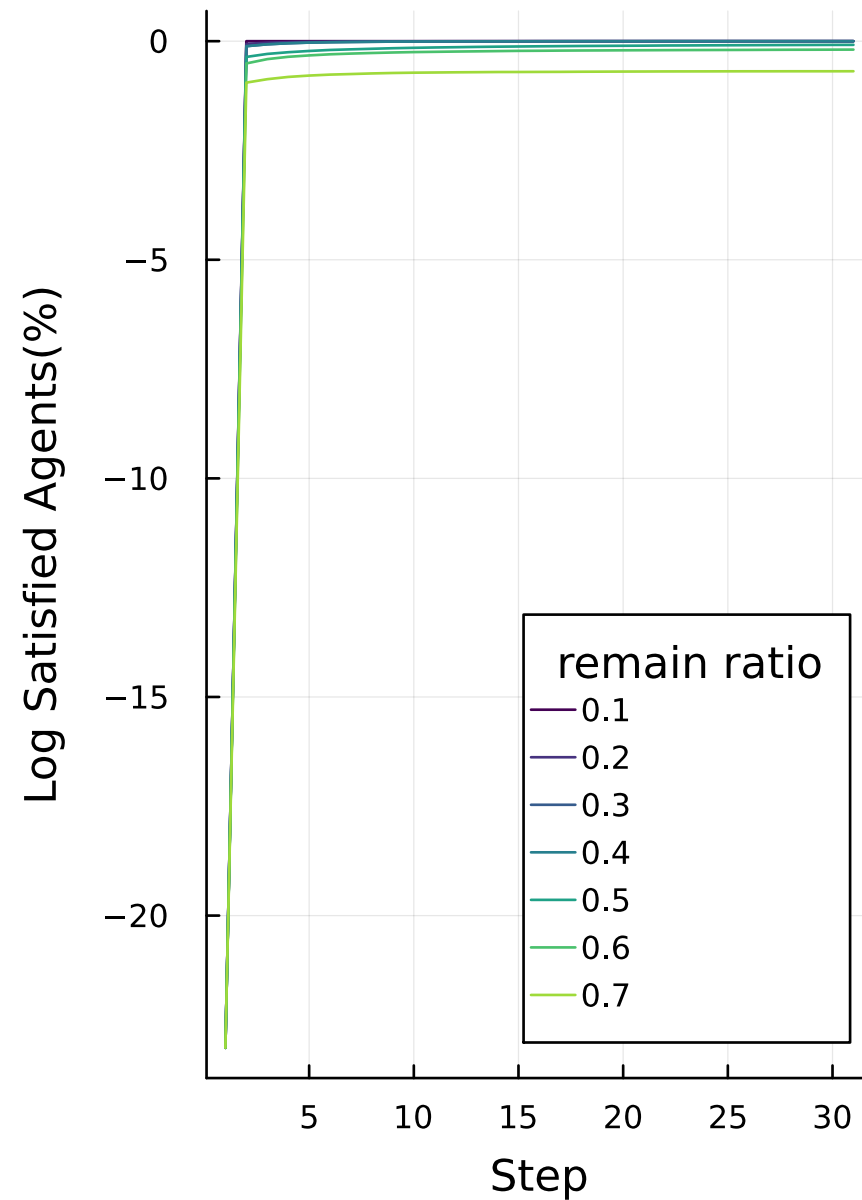Exploring the Homogeneity Threshold