>> si=95.7; so=41.7; f=1/((1/si)+(1/so))

f = 29.0443

>> si=75.2; so=28.9; f=1/((1/si)+(1/so))

f = 20.8768

The overall error in our calculation of R, based on curvature with the largest error, is found with assumed measurement errors of and . (by measurement error we assume 1/10th of the smallest discretization of our device, 0.1mm for a ruler and 0.001mm for a spherometer)

Using calculated values for the radii of curvature in the lens equation, the focal lengths are found