

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Partner: \_\_\_\_\_

### Index of Refraction of Glass

Submit this worksheet along with a second sheet that contains both graphs and all linest results.

quantity	units	Convex		Concave	
		value	uncertainty	value	uncertainty
intercept of graph					
Pin to pin distance of spherometer ( $L$ )					
spherometer offset for 1 <sup>st</sup> surface ( $h_1$ )					
spherometer offset for 2nd surface ( $h_2$ )					
Radius of first surface ( $R_1$ )					
Radius of first surface ( $R_2$ )					
focal length					
index of refraction					

Focal length of convex lens as measured by a distant object (include units and uncertainty):

In the space below, comment on your results. Do your measurements of the index of refraction agree with the typical values for glass? If not, why not?