NAME, GROUP:

DATE:

working with:

OPTICS 1

1. Determination of the focal length of a convex lens

The color of the tape on the lens:

The distance between the object and the screen: ()

	d _{obj}	d _{img}	Simg	f	М	Sobj
	()	()	()	()		()
error						

2. Estimation of the thickness of a hair fiber using a lens

d _{obj}	d _{img}	Simg	М	S _{obj}	error Δs _{obj}
()	()	()		()	()

3. Determination of the refractive index of the prism

φ = 60°

critical angle			n
	red:	α _{c,r} =	
	violet:	α _{c,v} =	
error		± 1°	

4. Determining the refractive index of an unknown material by measuring Brewster's angle

The measured Brewster's angle:

The refractive index of the unknown material:

This material is