

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

**Physics Light and Optics**

Period: \_\_\_\_\_

**Practice Problems**

**TAKS Tuesday**

- 1) If the index of refraction for ice is 1.309, find the speed of light in ice.
- 2) Light coming from air goes into glass at  $40^\circ$  to the normal. Find the angle of the refracted light in the glass.
- 3) If the index of refraction of a Benzene is 1.501, find the critical angle of Benzene to air.
- 4) Find the wavelength of 3.4 MHz light.
- 5) A 3 cm object is 4 cm in front of a concave lens. If  $f = 5$  cm,
  - A) Find where the image is.
  - B) Find the magnification of the lens.
  - C) Find the height of the image.