Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_\_\_

**Ch 14.3 Optical Phenomena** Page 508 - Practice Problems C – Critical Angle

1. Glycerine is used to make soup and other personal care products. Find the critical angle for light traveling from glycerine (n=1.473) into air
2. Calculate the critical angle for light traveling from glycerine (n=1.473) into water (n=1.333)
3. Ice has a lower index on refraction than water. Find the critical angle for light traveling from ice (n=1.309) into air.
4. Which has a smaller critical angle in air, diamond (n=2.419) or cubic zirconia (n=2.20)? Show you work.