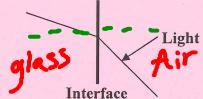
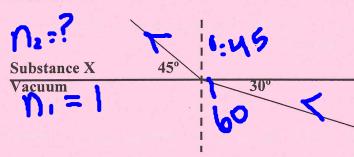
THE BENDING OF LIGHT hich is the e of refraction? Interface we the path of light

1. In the diagram at right, which is the angle if incidence? The angle of refraction?

2. The diagram at right shows the path of light traveling from air into glass. On which side is the glass?



3. Calculate the index of refraction for substance X below.



nising = nzsing = 1.225

4. Fill a clear glass with water and place a straight object (such as a pencil) in it. While looking through the side of the glass move the object alternatingly toward and away from you. Draw ray diagram (from or perspective) and explain what you see and why.



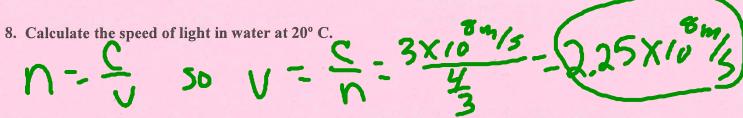
5. Light from the setting (and rising) sun comes through Earth's atmosphere along a curved path to your eye, so that the sun looks higher in the sky than it really is. Explain this phenomenon and illustrate with a diagram.



6. Explain nearsightedness and farsightedness. Which type of lens corrects these deficiencies?

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7. A ray of light passes from water into benzene. If the angle of incidence is 40° , what is the angle of refraction?



9. A beam of light traveling in air passes into a slab of transparent material. If the angle of incidence is 40° and the angle of refraction is 25°, determine what the material is.

