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Physics 2C, Winter 2020

Reading Assignment due Thursday 2/27: Submit via Gradescope by 11:30am

1. “Stop-to-Think 34.2” at the bottom of pg. 965. For each image that is possible, draw a ray diagram like the one in Figure 34.10b (you only need to trace out the path / apparent-path of one light ray that starts at the object).
2. A light ray is incident on an interface between materials 1 and 2. The light ray starts in medium 1, and has incident angle θ_i when it strikes the surface. The light ray refracts and continues on in medium 2, bending towards the normal.
 - (a) Draw the path of the light ray. Label in your picture θ_i .
 - (b) What is bigger, n_1 or n_2 ? Explain using Snell’s law.

For extra practice (not due): From Chapter 34 of Knight, 4th edition: Conceptual Questions: 2-4. Exercises: 2, 6-7, 10, 13-16.