



Subject: Physics

Title: Reflection and Refraction

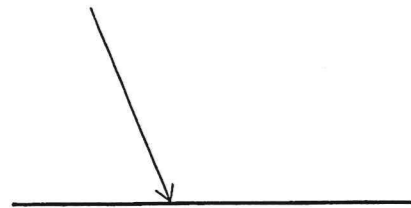
Name: _____

Grade-Section: 7CS _____

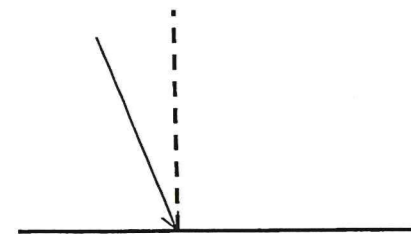
When completing a problem involving The Law of Reflection, it can be a bit confusing at first. As long as you have a ruler (or straight-edge) and a protractor, it becomes a simple process.

Let's say you have the following problem:

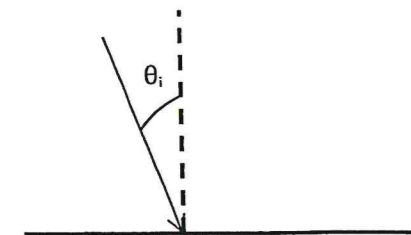
Use the Law of Reflection to draw the path of the reflected ray from the mirror in the diagram below:



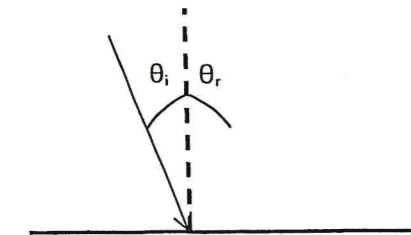
Here's how one would complete this type of problem.



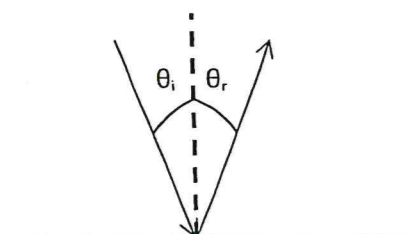
Step 1: Draw a line normal to the surface of the mirror at the point where the *incident ray* strikes the mirror.



Step 2: Using a protractor, measure the angle of incidence between the *incident ray* and the *normal*.



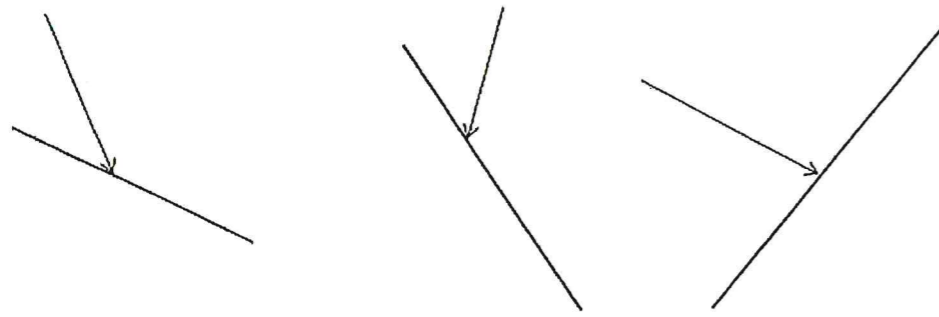
Step 3: Measure the angle of reflection from the normal.



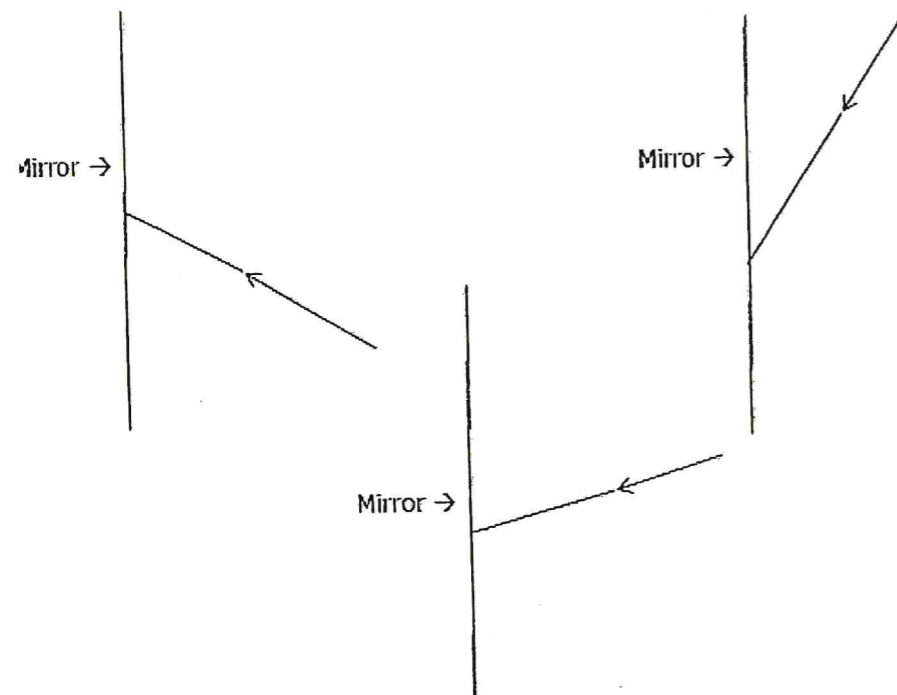
Step 4: Draw the reflected ray.

1)

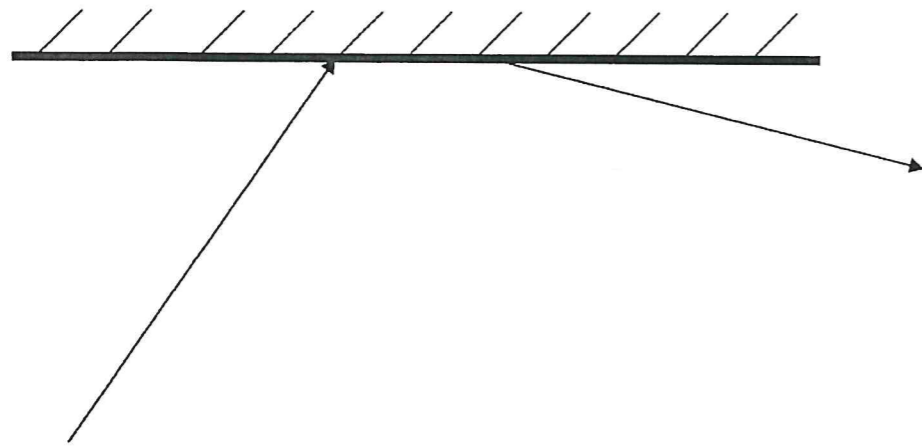
For each of the following incident rays, draw a line normal to the surface where the incident ray strikes the surface, and draw the reflected ray.



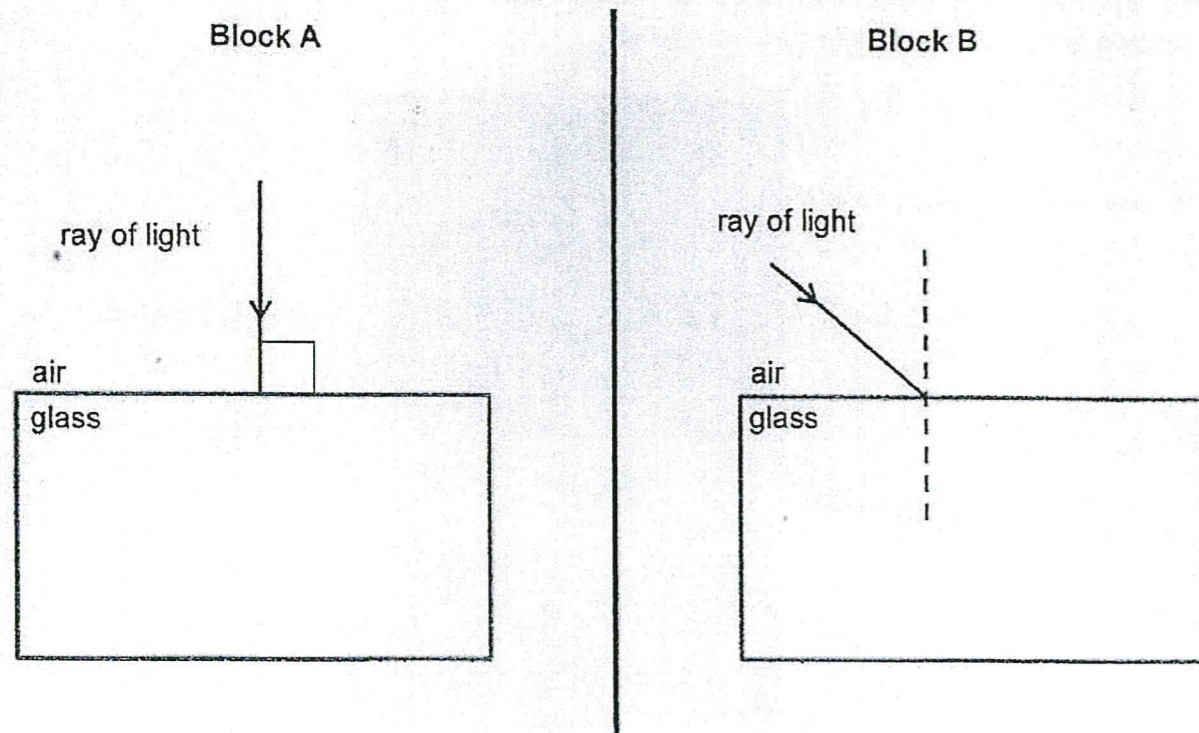
2) Use the law of reflection to draw the path of the reflected ray from the mirror in the diagram below.



- 3) Draw the normal for each ray. Find the corresponding reflected ray and incident ray.



- 4) Figures 4.1 and 4.2 show two different rays of light passing through glass Block A and glass Block B.



5) Complete the diagram:

