The diagrams below show a ray of light incident upon an interface. In some cases the ray is traveling through air and entering glass. In other cases it is traveling through glass and entering air. On each diagram below, sketch the approximate path of the light in the second medium. Ignore any reflected light. It is not necessary to calculate any angles, but do clearly show the change in direction of the rays, if any, at each surface.

1.  
   ![Diagram 1](image)

2.  
   ![Diagram 2](image)

3.  
   ![Diagram 3](image)

4.  
   ![Diagram 4](image)

5.  
   ![Diagram 5](image)

6.  
   ![Diagram 6](image)

7.  
   ![Diagram 7](image)

8.  
   ![Diagram 8](image)

9.  
   ![Diagram 9](image)

10.  
   ![Diagram 10](image)

11.  
   ![Diagram 11](image)

12.  
   ![Diagram 12](image)

13.  
   ![Diagram 13](image)