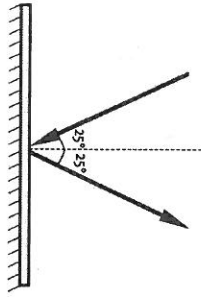


Calculating the Deviation of Light Waves

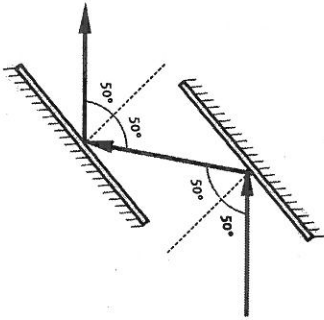
Reflecting light waves in a plane mirror

1. Draw the trajectory of a light wave in the three following situations, showing the angles of incidence and angles of reflection.

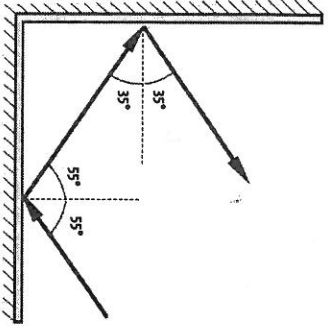
Example:



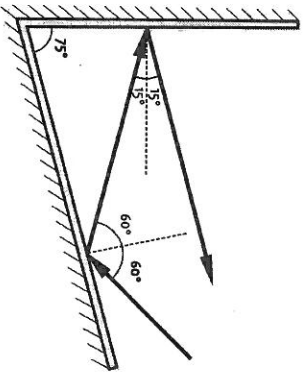
a)



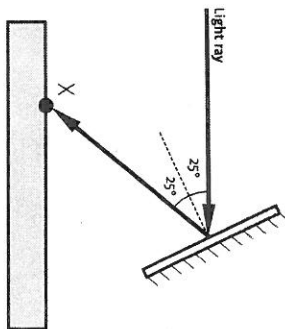
b)



c)



4. You are trying to direct a light ray toward a precise point on a wall (represented by an X in the diagram below) with a mirror.
Draw the mirror at an angle that will let you do this.



5. Your science and technology teacher has decided to install a mirror over his or her desk so that students can see demonstrations without leaving their seats.
a) In the diagram below, show where the students' desks should be placed so that they can see the demonstrations clearly.
b) Note the incidence angles and reflection angles.

