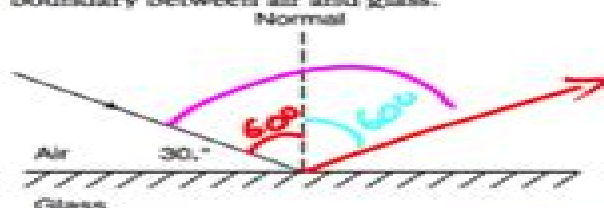


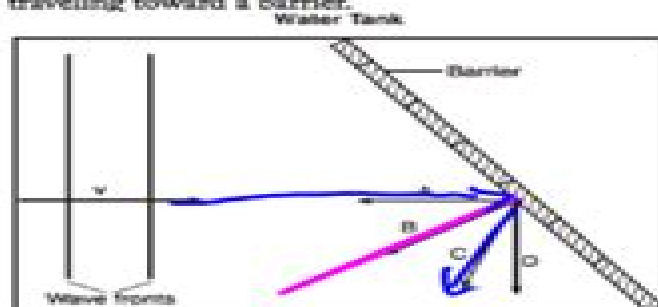
Waves-Reflection

1. The diagram below represents a light ray striking the boundary between air and glass.



What would be the angle between this light ray and its reflected ray?

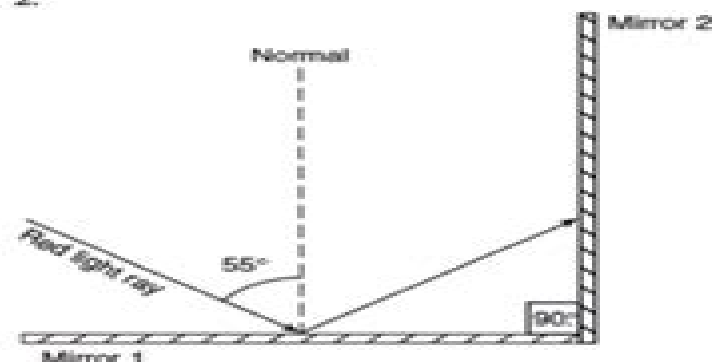
1. 30°
 2. 60°
 3. 120°
 4. 150°
2. The diagram below represents a view from above of a tank of water in which parallel wave fronts are traveling toward a barrier.



Which arrow represents the direction of travel for the wave fronts after being reflected from the barrier?

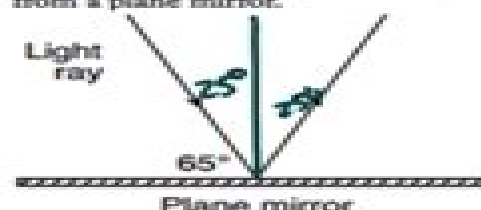
1. A
 2. B
 3. C
 4. D
3. A sonar wave is reflected from the ocean floor. For which angles of incidence do the wave's angle of reflection equal its angle of incidence?
1. angles less than 45° , only
 2. an angle of 45° , only
 3. angles greater than 45° , only
 4. all angles of incidence

4. Two plane mirrors are positioned perpendicular to each other as shown. A ray of monochromatic red light is incident on mirror 1 at an angle of 55° . This ray is reflected from mirror 1 and then strikes mirror 2.



Determine the angle at which the ray is incident on mirror 2 and label the angle on the diagram (in degrees). On the diagram, use a protractor and straightedge to draw the ray of light as it is reflected from mirror 2.

5. The diagram below represents a light ray reflecting from a plane mirror.



The angle of reflection for the light ray is

1. 25°
2. 35°
3. 50°
4. 65°

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Sebastian Brünink



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web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque as per below cross pattern sequences

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web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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