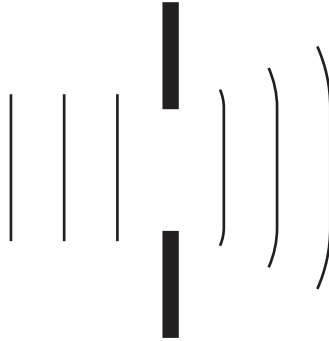


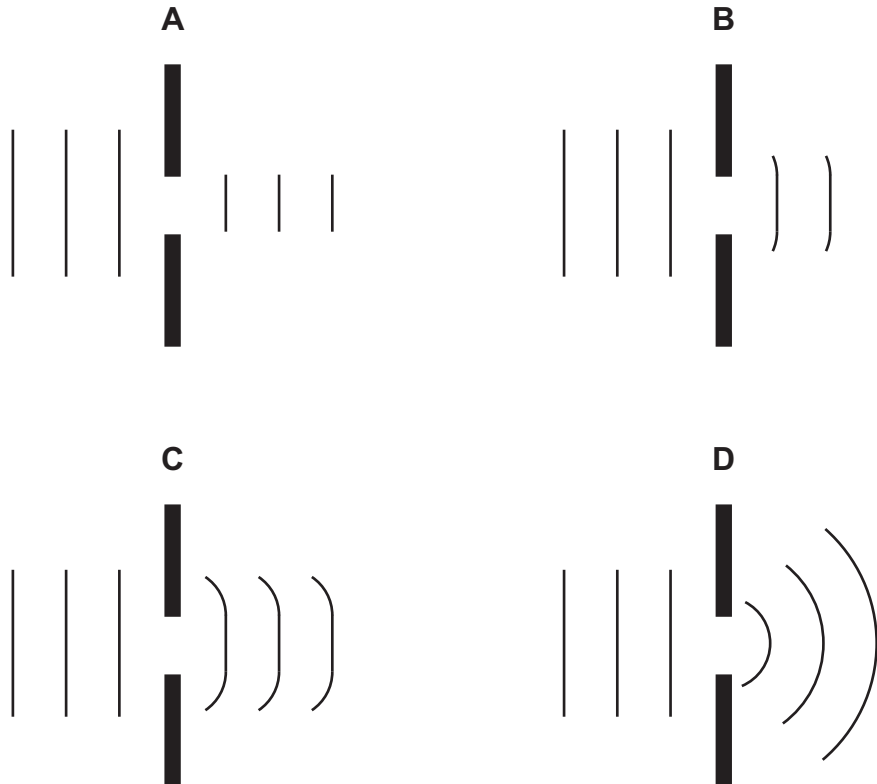
30 A ripple tank contains water at a constant depth.

A water wave of constant frequency travels towards a gap in a barrier placed in the ripple tank.



The gap is made smaller.

Which diagram represents the wave before and after the barrier?



31 Light from a red laser passes through a narrow slit and forms a pattern of light