

**IB PHYSICS HL
MULTIPLE CHOICE REVIEW
WAVES & VIBRATIONS**

1. A sound emitting source moves along a straight line with speed v relative to an observer at rest.



The speed of sound relative to the medium is c . The observer measures the speed of sound emitted by the source as

- A. c B. $c + v$ C. $c - v$ D. $v - c$

(1)

2. The diagram below shows ocean waves incident on a stone barrier protecting boats anchored behind it.



The boats could still be at risk of damage by waves mainly as a result of

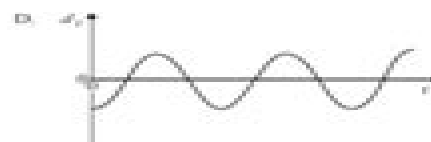
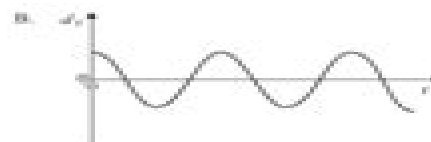
- A. refraction. B. standing waves. C. diffraction. D. reflection.

(1)

3. Two particles X and Y are situated a distance $\frac{1}{2}\lambda$ apart on a stationary wave of wavelength λ . The variation with time t of the displacement d_x of X is shown below.



Which **one** of the following correctly shows the variation with time t of the displacement d_y of particle Y?



(1)

Physics Vibrations And Waves Multiple Choice

Ian Pickup



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