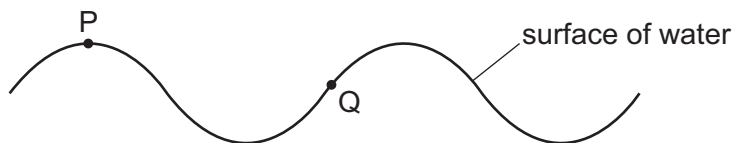
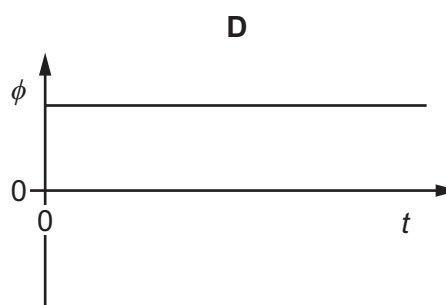
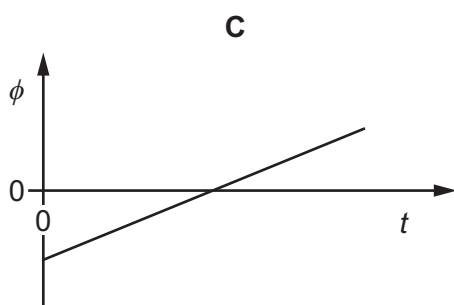
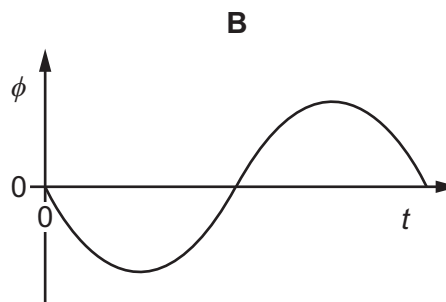
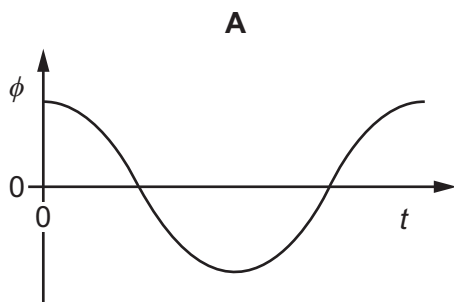


- 20 In a progressive water wave, two particles, P and Q, on the surface of the water, are a fixed horizontal distance apart. P and Q oscillate vertically.

At time  $t = 0$ , the wave is as shown.



Which graph best represents the variation with time  $t$  of the phase difference  $\phi$  between the oscillation of the water particle P and the oscillation of the water particle Q?



- 21 Which statement about longitudinal waves and transverse waves is **not** correct?

- A** Both waves can be polarised.
- B** Both waves can form stationary waves.
- C** Both waves can transfer energy as progressive waves.
- D** Both waves obey the equation  $v = f\lambda$ .