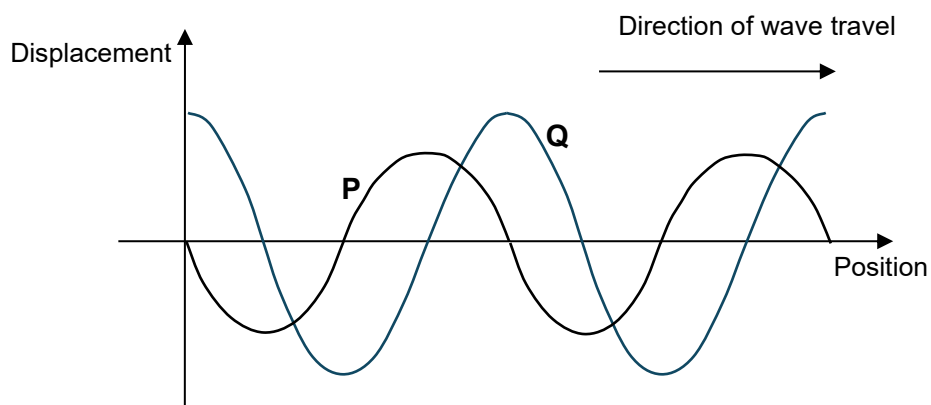**16** Two waves **P** and **Q** are moving towards the right as shown in the figure below.

Which of the following correctly describes the phase difference between the two waves?

A   **P** lags **Q** by $\dfrac{\pi}{4}$ radians.

B   **P** leads **Q** by $\dfrac{\pi}{4}$ radians.

C   **P** lags **Q** by $\dfrac{3\pi}{2}$ radians.

D   **P** leads **Q** by $\dfrac{3\pi}{2}$ radians.