

6 Two waves, of wavelength 12 cm, leave a source in phase.

The waves travel along different paths to a point X. The path difference at X is 18 cm.

Which of the following is the phase difference between the two waves at X?

- ☐ A 0 radians
- ☐ B $\frac{\pi}{2}$ radians
- ☐ C π radians
- ☐ D $\frac{3\pi}{2}$ radians

(Total for Question 6 = 1 mark)