

- 16** Two coherent light waves that are same plane polarized of equal frequency and intensity superpose at a point that is equal distance from the two sources. The intensity of light at that point is twice the intensity of light due to either wave alone.

What is a possible phase difference between the two waves at that point?

**A**  $\frac{\pi}{2}$

**B**  $\pi$

**C**  $2\pi$

**D**  $3\pi$