

- 16** A progressive wave of amplitude A has intensity I . This wave combines with another coherent wave of amplitude $0.6A$ at a point P in space. The 2 waves started out anti-phase and arrives at point P with a path difference of 4 wavelengths.

What is the resultant intensity of the combined waves in terms of I at point P?

A $0.16I$

B $0.4I$

C $1.6I$

D $2.6I$