

- 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** $0.16 I$ **B** $0.4I$ **C** $1.6I$ **D** $2.6I$