

27 A wave of amplitude a has an intensity of 3.0 W m^{-2} .

What is the intensity of a wave of the same frequency that has an amplitude $2a$?

A 4.2 W m^{-2}

B 6.0 W m^{-2}

C 9.0 W m^{-2}

D 12 W m^{-2}

28 Coherent monochromatic light illuminates two narrow parallel slits and the interference pattern