

17 Fringes of separation x are observed in a plane 1.00 m away from a Young's double-slit arrangement illuminated by yellow light of wavelength 600 nm.

At what distance from the slits would fringes of the separation $2x$ be observed when using blue light of wavelength 400 nm?

A 1.00 m

B 1.50 m

C 1.33 m

D 3.00 m