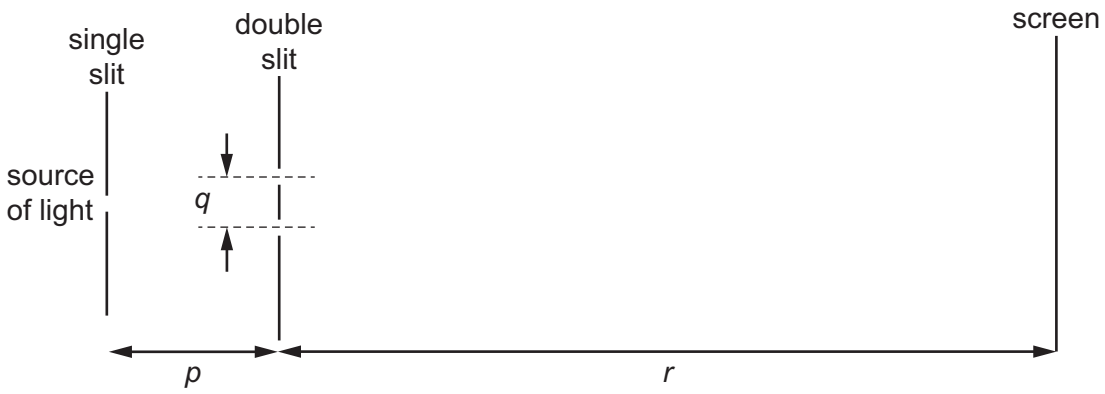
25 A teacher sets up the apparatus shown to demonstrate a double-slit interference pattern on the screen.



Which change to the apparatus will increase the fringe spacing?

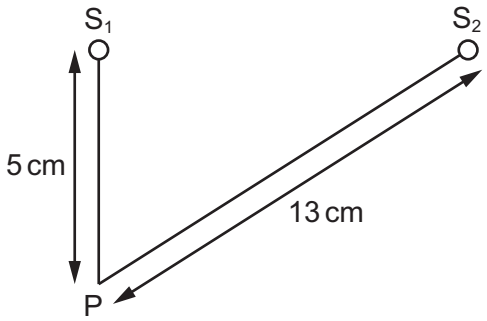
A decreasing the distance *p*

B decreasing the distance *q*

C decreasing the distance *r*

D decreasing the wavelength of the light

26 The diagram shows two sources of waves S_1 and S_2. The sources oscillate with a phase difference of 180°.



The sources each generate a wave of wavelength 2.0 cm. Each source produces a wave that has amplitude x_0 when it reaches point P.

What is the amplitude of the oscillation at P?

A 0 **B** $\frac{x_0}{2}$ **C** x_0 **D** $2x_0$