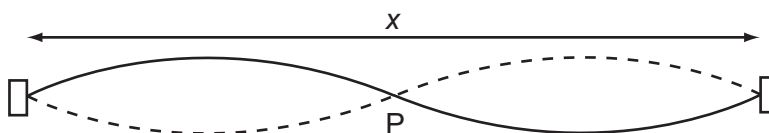


- 27 The diagram represents a stationary wave on a stretched string.



What is represented by point P and by the length  $x$ ?

	point P	length $x$
<b>A</b>	antinode	one wavelength
<b>B</b>	antinode	two wavelengths
<b>C</b>	node	one wavelength
<b>D</b>	node	two wavelengths

- 28 Fringes of separation  $y$  are observed on a screen 1.00 m from a Young's slit arrangement that is illuminated by yellow light of wavelength 600 nm.

At which distance from the slits would fringes of the same separation  $y$  be observed when using blue light of wavelength 400 nm?

- A** 0.33 m      **B** 0.67 m      **C** 0.75 m      **D** 1.50 m

- 29 Two parallel, conducting plates with air between them are placed close to one another. The top plate is given a negative charge and the bottom one is earthed.

Which diagram best represents the distribution of charges and the field in this situation?

