

- 6 Monochromatic light of wavelength λ is incident normally on two slits, S_1 and S_2 , producing an interference pattern on a screen as shown. V, W, X, Y and Z represent positions of adjacent maxima.



The distance from S_1 to X is represented as S_1X .

Which of the following expressions is equal to 2λ ?

- ☐ A $S_1Z - S_2X$
- ☐ B $S_1V - S_2V$
- ☐ C $S_1Y - S_2Y$
- ☐ D $S_1W - S_2Y$

(Total for Question 6 = 1 mark)