

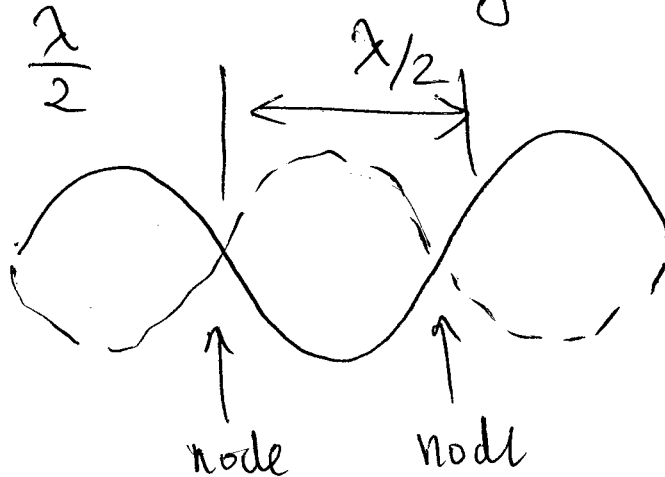
For the superposition of the following two harmonic waves:

$$y_1 = (4.0 \text{ m}) \sin(2\pi x - 4\pi t)$$

$$y_2 = (4.0 \text{ m}) \sin(2\pi x + 4\pi t)$$

where x is in meter and t is in second, the distance between any two successive nodes will be:

The distance between any successive nodes is $\frac{\lambda}{2}$



$$y_1 = (4.0 \text{ m}) \sin(2\pi x - 4\pi t)$$

\swarrow
 $= k$

$$k = \frac{2\pi}{\lambda} \Rightarrow \lambda = 1.0 \text{ m}$$

$$\frac{\lambda}{2} = 0.50 \text{ m}$$

04 Sep	11 Sep	18 Sep	25 Sep	2 Oct	9 Oct	23 Oct	30 Oct	6 Nov	13 Nov	20 Nov	27 Nov	4 Dec	11 Dec	18 Dec
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