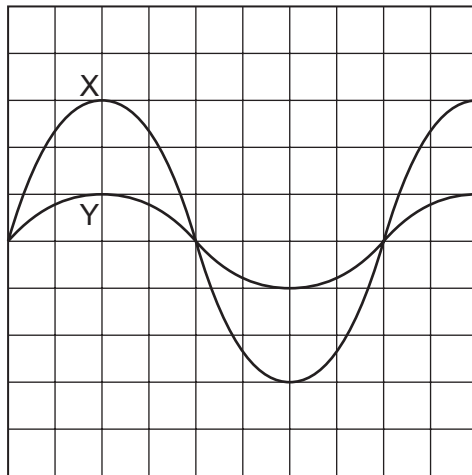


- 26** The diagram represents the screen of a cathode-ray oscilloscope displaying two sound waves labelled X and Y.



What is the ratio  $\frac{\text{intensity of sound wave X}}{\text{intensity of sound wave Y}}$ ?

**A**  $\frac{9}{1}$

**B**  $\frac{3}{1}$

**C**  $\frac{\sqrt{3}}{1}$

**D**  $\frac{1}{1}$

- 27** T is a microwave transmitter placed at a fixed distance from a flat reflecting surface S