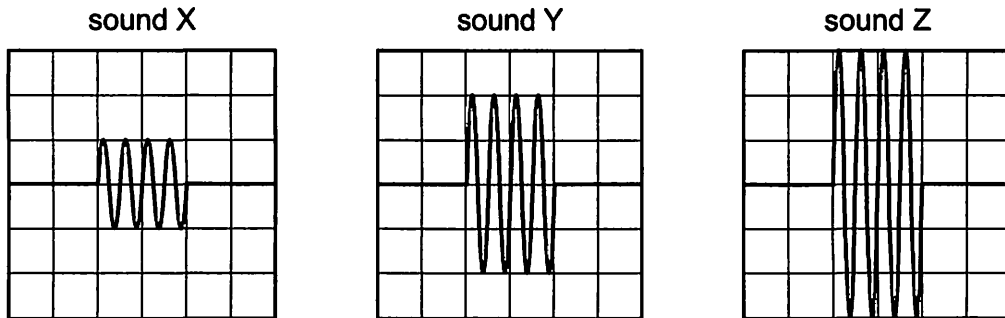


- 15 The diagram shows the traces on the screen of a cathode-ray oscilloscope (c.r.o.) produced by three sounds X, Y and Z. All three sounds are of the same frequency and duration.



Sound X has an intensity  $I$ .

What are the intensities of Y and Z?

|   | Y           | Z           |
|---|-------------|-------------|
| A | $I$         | $I$         |
| B | $\sqrt{2}I$ | $\sqrt{3}I$ |
| C | $2I$        | $3I$        |
| D | $4I$        | $9I$        |