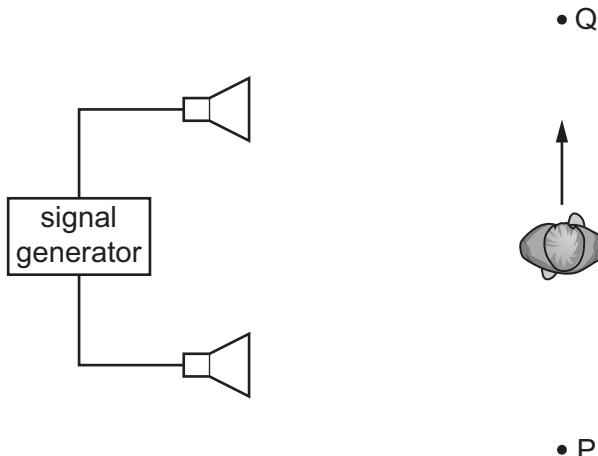


**28** A student connects two loudspeakers to a signal generator.



As the student walks from P to Q, he notices that the loudness of the sound rises and falls repeatedly.

What causes the loudness of the sound to vary?

- A** diffraction of the sound waves
- B** Doppler shift of the sound waves
- C** interference of the sound waves
- D** reflection of the sound waves

**29** A parallel beam of white light is incident normally on a diffraction grating. The second-order and