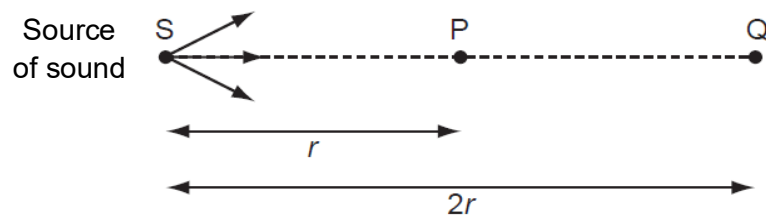


- 12** Sound is emitted from a point source S. At point Q, air molecules oscillate with amplitude $6.0\ \mu\text{m}$.

What is the amplitude of oscillation of air molecules at P?



- A** $0.75\ \mu\text{m}$
- B** $1.5\ \mu\text{m}$
- C** $3.0\ \mu\text{m}$
- D** $12.0\ \mu\text{m}$