

- 19** A point source emits 50.0 W of sound energy in all directions. A small microphone of area 0.85 cm^2 detects the sound at 4.0 m from the source.

What is the power received by the microphone?

- A** $1.6 \times 10^{-5} \text{ W}$
- B** $2.1 \times 10^{-5} \text{ W}$
- C** $2.1 \times 10^{-1} \text{ W}$
- D** $2.5 \times 10^{-1} \text{ W}$