

- 22** A loudspeaker emits sound of frequency  $f_s$ . The loudspeaker is attached to a car that moves with increasing speed directly towards a stationary observer.

Which statement describes the frequency of the sound heard by the observer?

- A** a frequency greater than  $f_s$  and increasing
- B** a frequency greater than  $f_s$  but decreasing
- C** a frequency less than  $f_s$  and decreasing
- D** a frequency less than  $f_s$  but increasing