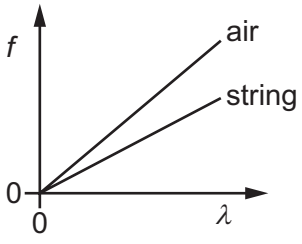
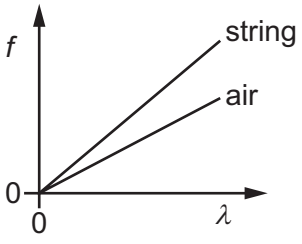
21 A guitar string vibrates to create a sound. The speed of the wave in the guitar string is always $440\,m\,s^{-1}$. The vibrating string creates a sound wave that moves in the air with a speed of $330\,m\,s^{-1}$.

Which graph shows the variation of frequency f with the wavelength λ for the waves in the string and in the air?

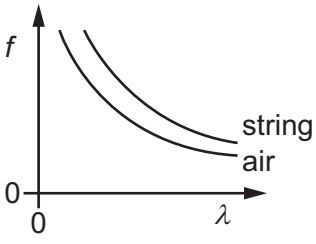
A



B



C



D