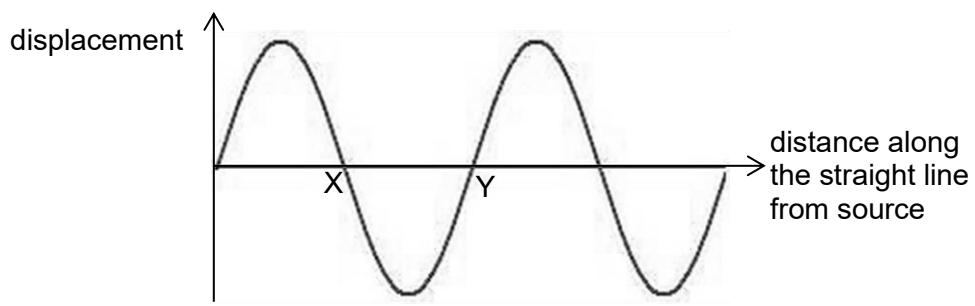


- 16** As a sound wave travels from left to right and passes through a region of space, the displacement of the air molecules along a straight line is plotted as shown below. (Take rightward to be positive).



Which of the following correctly describes the sound wave at locations X and Y?

	X	Y
<b>A</b>	compression	compression
<b>B</b>	compression	rarefaction
<b>C</b>	rarefaction	compression
<b>D</b>	rarefaction	rarefaction