

**25** Microwaves in a vacuum travel at speed  $X$  and have wavelength of order of magnitude  $Y$ .

What are the speed and a possible order of magnitude of wavelength of X-rays in a vacuum?

	speed	wavelength
<b>A</b>	$X$	$10^{-8} Y$
<b>B</b>	$X$	$10^{-4} Y$
<b>C</b>	$10^4 X$	$Y$
<b>D</b>	$10^8 X$	$Y$