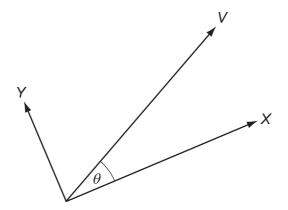
6 A vector quantity V is resolved into two perpendicular components X and Y. The angle between V and component X is θ .



The angle between component X and the vector V is increased from 0° to 90° .

How do the magnitudes of X and Y change as the angle θ is increased in this way?

	Χ	Υ
Α	increase	increase
В	increase	decrease
С	decrease	increase
D	decrease	decrease

- 7 The product of pressure and volume has the same SI base units as
 - A energy.
 - **B** force.
 - $c \frac{\text{force}}{\text{area}}$
 - $\mathbf{D} \quad \frac{\text{force}}{\text{length}}.$

Space for working