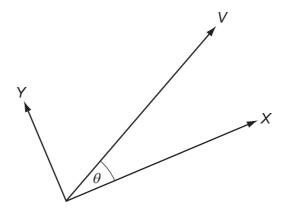
- 1 The product of pressure and volume has the same SI base units as
  - A energy.
  - B force.
  - $c \frac{\text{force}}{\text{area}}$
  - $\mathbf{D} \quad \frac{\text{force}}{\text{length}}.$
- **2** A vector quantity V is resolved into two perpendicular components X and Y. The angle between V and component X is  $\theta$ .



The angle between component X and the vector V is increased from  $0^{\circ}$  to  $90^{\circ}$ .

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

	X	Υ
Α	increase	increase
В	increase	decrease
С	decrease	increase
D	decrease	decrease

## Space for working