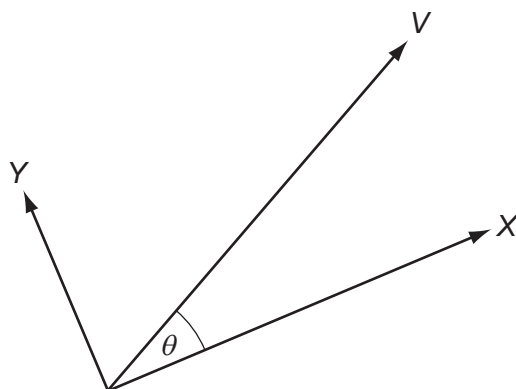


- 5 A vector quantity V is resolved into two perpendicular components X and Y . The angle between V and component X is θ .



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?

	X	Y
A	increase	increase
B	increase	decrease
C	decrease	increase
D	decrease	decrease

Space for working