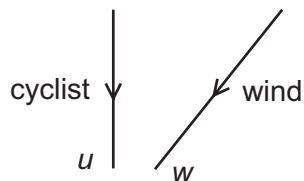
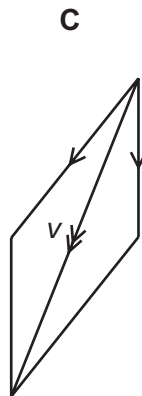
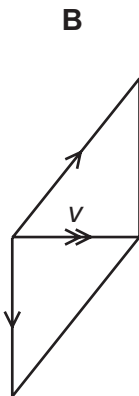
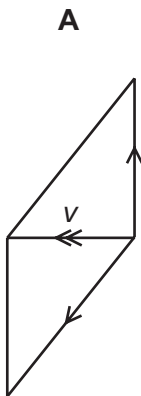


- 4 A cyclist is travelling due south with velocity  $u$ . The wind is blowing from the north-east with velocity  $w$ .



The wind has a velocity  $v$  relative to the cyclist, where  $v = w - u$ .

Which vector diagram shows the magnitude and direction of velocity  $v$ ?



- 5 A student takes measurements of the current in a resistor of constant resistance and the potential