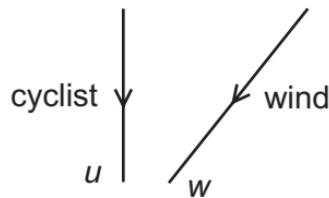


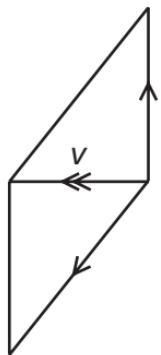
- 4 A cyclist is travelling due south with velocity u . The wind is blowing from the north-east with velocity w .



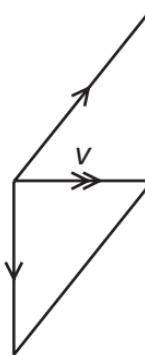
The wind has a velocity v relative to the cyclist, where $v = w - u$.

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

A



B



C



D



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