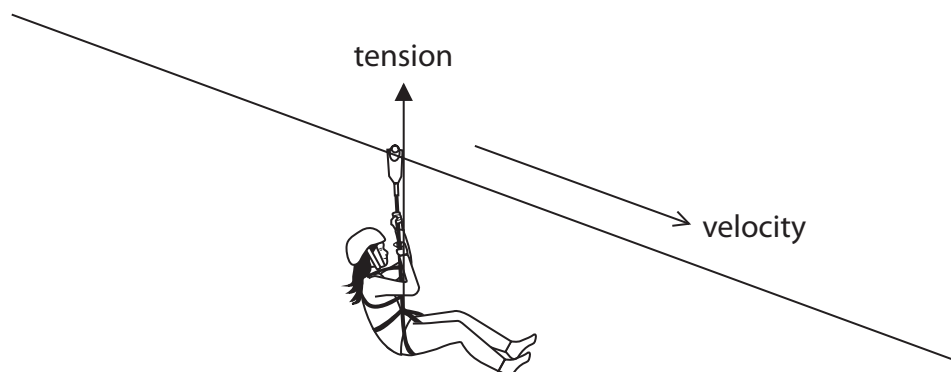


6 The diagram shows a child on a zip-line ride.

During the ride the child slides along a metal wire with the velocity in the direction shown in the diagram.



The diagram also shows the tension force acting on the safety harness the child is wearing.

- (a) Force and velocity are examples of vector quantities.

State what is meant by the term **vector quantity**.

(1)

- (b) Draw labelled arrows on the diagram to show two other forces that act on the child.

(4)

**(Total for Question 6 = 5 marks)**