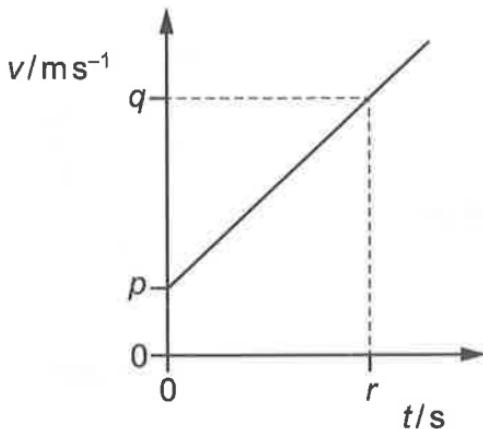


2 The diagram shows how the velocity v of a car travelling in a straight line changes with time t .



Which expression gives the displacement of the car between time $t = 0$ and $t = r$?

- A $\frac{1}{2}qr$
- B $\frac{1}{2}(q - p)r$
- C $\frac{1}{2}(q - p)r + qr$
- D $\frac{1}{2}(p + q)r$

3 An arrow flies through the air and arrives with kinetic energy E at a target. The arrow is stopped