

A particle P of mass 0.5 kg is moving under the action of a single force $(3\mathbf{i} - 2\mathbf{j})$ N.

(a) Show that the magnitude of the acceleration of P is $2\sqrt{13}$ m s⁻². (4)

At time $t = 0$, the velocity of P is $(\mathbf{i} + 3\mathbf{j})$ m s⁻¹.

(b) Find the velocity of P at time $t = 2$ seconds. (3)

Another particle Q moves with constant velocity $\mathbf{v} = (2\mathbf{i} - \mathbf{j})$ m s⁻¹.

(c) Find the distance moved by Q in 2 seconds. (2)

(d) Show that at time $t = 3.5$ seconds both particles are moving in the same direction. (3)

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