

[In this question, the horizontal unit vectors \mathbf{i} and \mathbf{j} are directed due east and due north respectively.]

The velocity, \mathbf{v} m s⁻¹, of a particle P at time t seconds is given by

$$\mathbf{v} = (1 - 2t)\mathbf{i} + (3t - 3)\mathbf{j}$$

(a) Find the speed of P when $t = 0$ (3)

(b) Find the bearing on which P is moving when $t = 2$ (2)

(c) Find the value of t when P is moving

(i) parallel to \mathbf{j} ,

(ii) parallel to $(-\mathbf{i} - 3\mathbf{j})$.

(6)

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