

17. (2018-June-P1-Q10)

The points A , B , C and D are such that

$$\overrightarrow{AB} = 5\mathbf{i} + 5\mathbf{j} \quad \overrightarrow{AC} = -2\mathbf{i} + 15\mathbf{j} \quad \overrightarrow{AD} = -7\mathbf{i} + 10\mathbf{j}$$

(a) (i) Find $\overrightarrow{DC}$ as a simplified expression in terms of $\mathbf{i}$ and $\mathbf{j}$.

(ii) Hence show that $ABCD$ is a parallelogram.

(4)

(b) Find a unit vector parallel to $\overrightarrow{BD}$ as a simplified expression in terms of $\mathbf{i}$ and $\mathbf{j}$.

(4)

The point E lies on BD and $BE:ED = 3:10$

(c) Find $\overrightarrow{AE}$ as a simplified expression in terms of $\mathbf{i}$ and $\mathbf{j}$.

(2)

The point F is such that DCF and AEF are both straight lines.

(d) Find $DC:CF$

(6)

18. (2019-January-P2-Q3)

Referred to a fixed origin O , the position vectors of the points P and Q are $(5\mathbf{i} + 6\mathbf{j})$ and $(3\mathbf{i} - 4\mathbf{j})$ respectively.

(a) Find, as a simplified expression in terms of $\mathbf{i}$ and $\mathbf{j}$, $\overrightarrow{PQ}$.

(2)

(b) Find a unit vector parallel to $\overrightarrow{PQ}$.

(2)

The position vector of the fixed point R is $(13\mathbf{i} + a\mathbf{j})$, where a is a constant.

Given that $\overrightarrow{QR} = 5\overrightarrow{QP}$

(c) find the value of a .

(2)

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