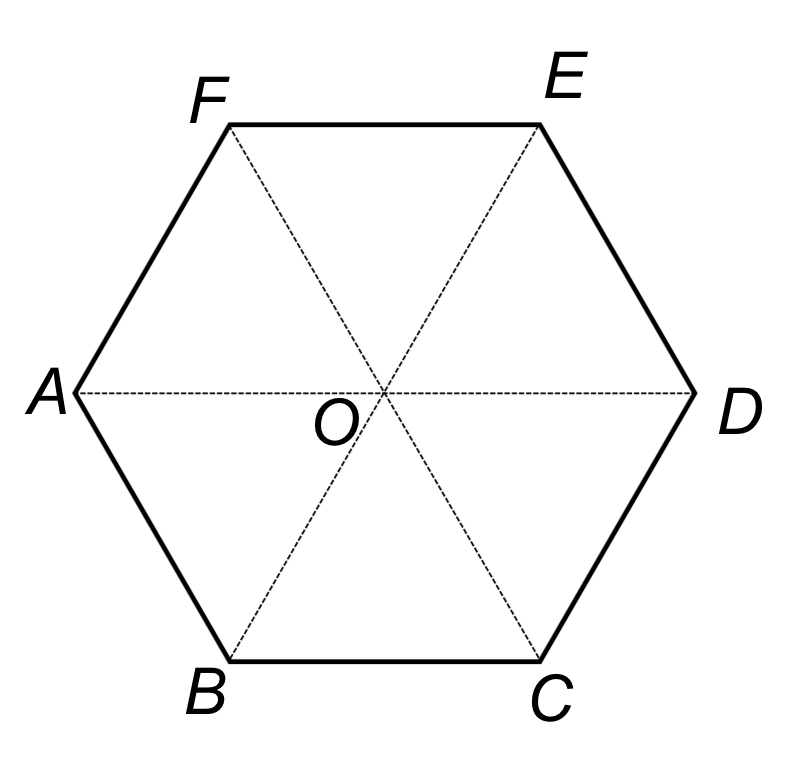
Worksheet B(ii): Vector paths

**Part I**



**Part II**

Using the diagram above, answer the following questions. Let = **a** and = **b**.

1) Show that is parallel to .

2) The point M is half-way between O and E. Find the vector in terms of the vectors **a** and **b**.

3) The point P is half-way between C and E. Find the vector in terms of the vectors **a** and **b**.

4) The point N is along ED so that N splits ED in the ratio 2:3 (i.e. EN:ND = 2:3). Find the vector in terms of the vectors **a** and **b**.