Al Moattasem International School

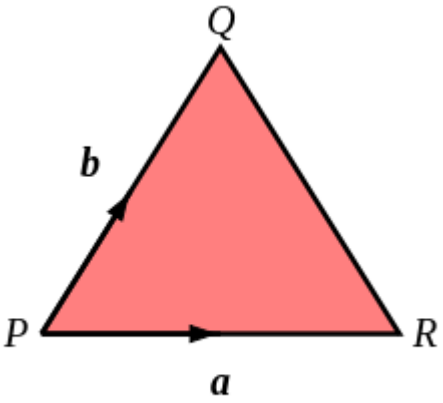
Jubail

Level 9 - Revision Work Sheet 3

Chapter 8

Topic – Vector Geometry

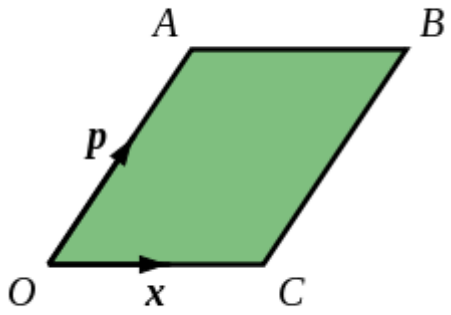
1) Triangle PQR is shown below where $\vec{PQ}$ = **b** and $\vec{PR}$ = **a**.



Express the following vectors in terms of **b** and **a**.

a) $\vec{PQ}$ b) $\vec{RP}$ c) $\vec{QR}$ d) $\vec{RQ}$

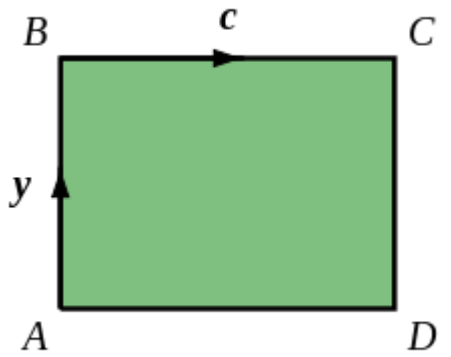
2) OABC is a parallelogram where $\vec{OA}$ = **p** and $\vec{OC}$ = **x**.



Express the following vectors in terms of **p** and **x**.

a) $\vec{AB}$ b) $\vec{BC}$ c) $\vec{OB}$ d) $\vec{AC}$

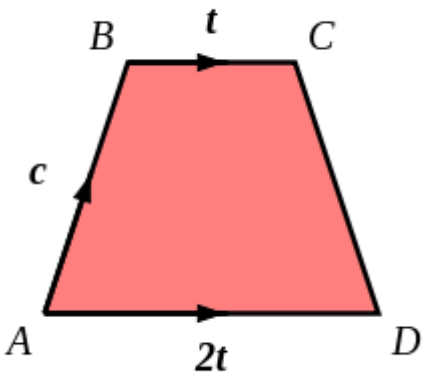
3) ABCD is a rectangle where $\vec{AB}$ = **y** and $\vec{BC}$ = **c**.



Express the following vectors in terms of **y** and **c**.

a) $\vec{AD}$ b) $\vec{AC}$ c) $\vec{CD}$ d) $\vec{BD}$

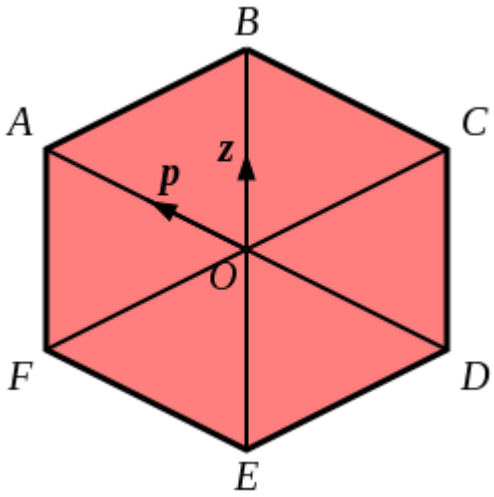
4) ABCD is a trapezium where $\vec{AB}$ = **c**, $\vec{BC}$ = **t** and $\vec{AD}$ = 2 $\vec{BC}$.



Express the following vectors in terms of **t** and **c**.

a) $\vec{AC}$ b) $\vec{DB}$ c) $\vec{CD}$ d) $\vec{DC}$

5) ABCDEF is a regular hexagon where $\vec{OA}$ = **p** and $\vec{OB}$ = **z**.



Express the following vectors in terms of **p** and **z**.

a) $\vec{AB}$ b) $\vec{DB}$ c) $\vec{OC}$ d) $\vec{FD}$