## K Education Centre

## GCSE Mathematics

## Vectors Assignment part 1

Assignment Questions
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## Vectors :

Q1 : Draw and labelled the following vectors .
a) $\binom{-4}{2}$
b) $\left.\begin{array}{l}0 \\ 5\end{array}\right)$
$Q 2$ : The points $P, Q, R, S$ are the vertices of quadrilateral PQRS where $P$ has the coordinates $(2,1), ~ \overrightarrow{P Q}=\binom{2}{4} \overrightarrow{Q R}=\binom{3}{1}$ and $\overrightarrow{R S}=\binom{4}{-2}$.
a) Draw the quadrilateral PQRS.
b) Write as a column vector $\overrightarrow{P S}$.
c) What kind of quadrilateral is PQRS

Q3 : The point $P$ is $(1,3)$ and point $Q$ is $(6,9)$ and point $R$ is $(5,-3)$.
Write as column vectors :
a) $\overrightarrow{P Q}$
b) $\overrightarrow{Q R}$ c) $\overrightarrow{P R}$

Q4: In a quadrilateral $\mathrm{PQRS}, \overrightarrow{\mathrm{PQ}}=\binom{3}{4}, \overrightarrow{\mathrm{QR}}=\binom{5}{0}, \overrightarrow{\mathrm{RS}}=\binom{-3}{-4}, \overrightarrow{\mathrm{SP}}=\binom{-5}{0}$. What type of quadrilateral is PQRS?

Q5 : Find the magnitude of the following vectors :
a) $\binom{3}{-2}$
b) $\binom{-2}{7}$

