## Summer Term Maths Year 10

## Column vectors

Draw the following vectors on the grid below.
$a=\binom{\mathbf{4}}{2}$
$b=\binom{2}{-5}$
$c=\binom{-4}{3}$


2 Write the column vector each of the vectors shown.


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## Column vectors


(a) Add an arrow onto the line segment to represent $\overrightarrow{A B}$.
(b) Write $\overrightarrow{A B}$ as a column vector. $\binom{4}{-3}$
(c) Teddy thinks vector $\overrightarrow{E F}$ is shown on the diagram. Is he right? Explain your answer.
(d) Represent the vectors CD and $\overrightarrow{J K}$ on the diagram. What do you notice about them?
They are parallel and the same length

Given that
$\overrightarrow{A B}=\binom{3}{5}$
$\overrightarrow{B C}=\binom{2}{-1}$
a) What is $\overrightarrow{C A}$ ?
b) What is $\overrightarrow{\mathrm{AC}}$ ?

$5 \quad A B C$ is an isosceles triangle.
$A=(3,5)$
$B=(2,2)$
a) What is the coordinate of C? $(1,5)$ or $(4,2)$ or $(2,8)$
b) What is the vector for $\overrightarrow{B C}$ ?
$\binom{-1}{3}$ or $\binom{2}{0}$ or
c) What is the vector for $\overrightarrow{\mathrm{CA}}$ ?


