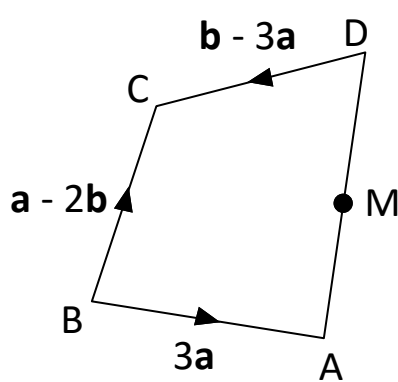# Vectors Homework

1) $\mathbf{a} = \begin{pmatrix} 5 \\ 4 \end{pmatrix}$ $\mathbf{b} = \begin{pmatrix} 7 \\ 2 \end{pmatrix}$ calculate:

a) $\mathbf{a} + \mathbf{b}$

b) $4\mathbf{b}$

c) $3\mathbf{a} - 2\mathbf{b}$

2) $\mathbf{a} = \begin{pmatrix} -2 \\ 6 \end{pmatrix}$ $\mathbf{b} = \begin{pmatrix} -5 \\ -8 \end{pmatrix}$ calculate:

a) $\mathbf{a} - \mathbf{b}$

b) $3\mathbf{b} + \mathbf{a}$

c) $4\mathbf{b} - 4\mathbf{a}$

3) ABCD is a quadrilateral

   M is the midpoint of AD

Express in terms of **a** and **b**

a) $\overrightarrow{AD}$

b) $\overrightarrow{AM}$

c) $\overrightarrow{MC}$

Mark:	Grade:
I did well at:	To Improve I need to:

Try:

MATHS CLOUD