

Simple vector diagrams

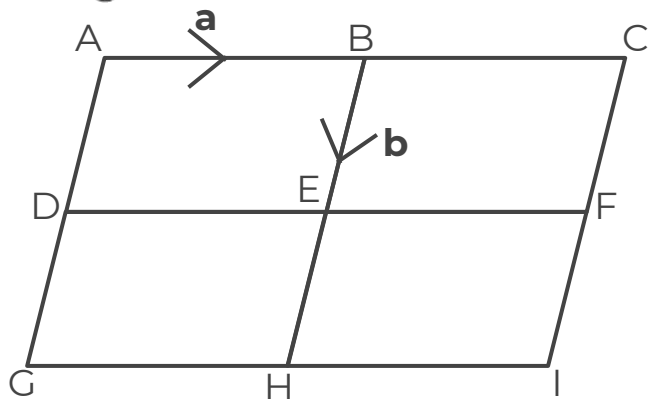
Maths

Miss Davies



Simple vector diagrams

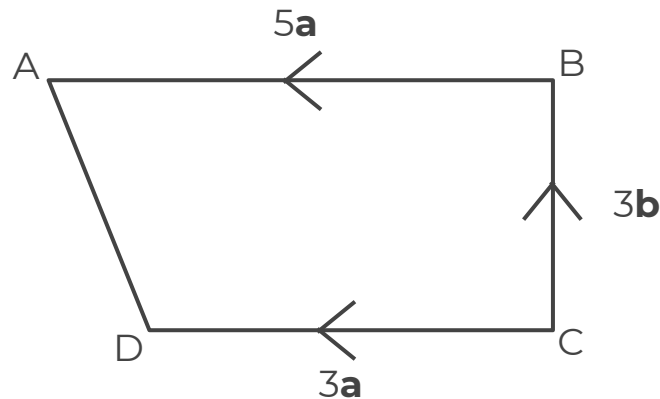
1. The diagram shows four congruent parallelograms.



Write the following vectors in terms of $\mathbf{a}$ and $\mathbf{b}$.

- a) $\overrightarrow{AB}$ b) $\overrightarrow{AC}$ c) $\overrightarrow{DB}$ d) $\overrightarrow{DI}$

2. The diagram shows a trapezium.



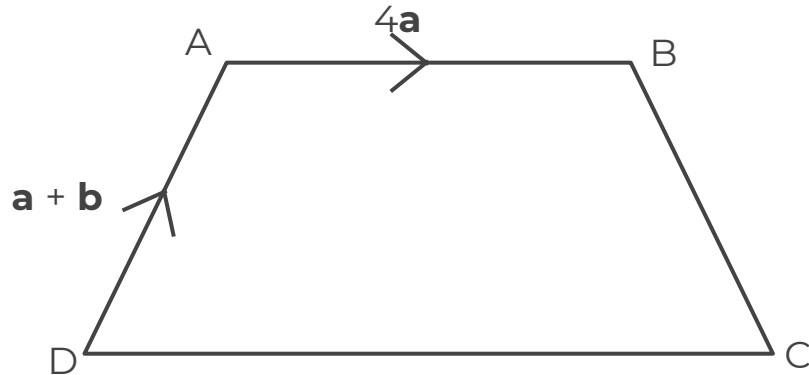
Write the following vectors in terms of $\mathbf{a}$ and $\mathbf{b}$.

- a) $\overrightarrow{CA}$ b) $\overrightarrow{AD}$



Simple vector diagrams

3. The diagram shows a trapezium.



$$DC = 2AB$$

Write the following vectors in terms of $\mathbf{a}$ and $\mathbf{b}$.

a) $\overrightarrow{DC}$

b) $\overrightarrow{BD}$

c) $\overrightarrow{CB}$

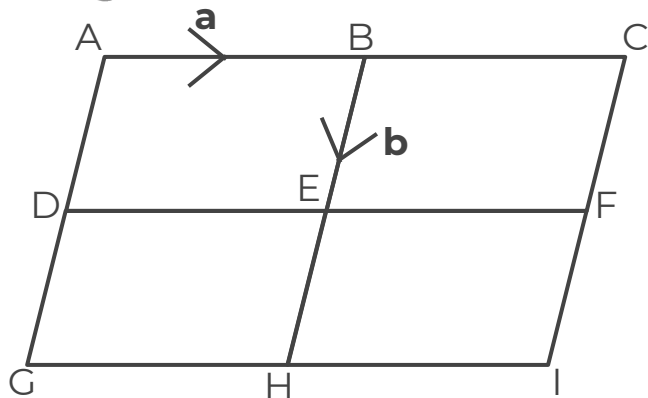


Answers



Simple vector diagrams

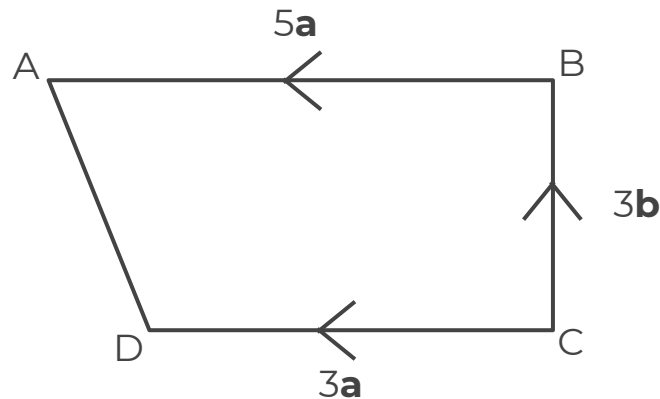
1. The diagram shows four congruent parallelograms.



Write the following vectors in terms of $\mathbf{a}$ and $\mathbf{b}$.

- | | | | |
|--------------------------|--------------------------|---------------------------|----------------------------|
| a) $\overrightarrow{AB}$ | b) $\overrightarrow{AC}$ | c) $\overrightarrow{DB}$ | d) $\overrightarrow{DI}$ |
| $\mathbf{a}$ | $2\mathbf{a}$ | $\mathbf{a} - \mathbf{b}$ | $2\mathbf{a} + \mathbf{b}$ |

2. The diagram shows a trapezium.



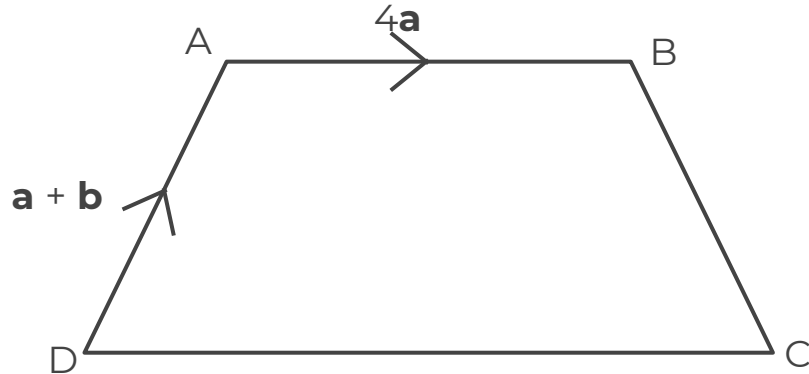
Write the following vectors in terms of $\mathbf{a}$ and $\mathbf{b}$.

- | | |
|-----------------------------|------------------------------|
| a) $\overrightarrow{CA}$ | b) $\overrightarrow{AD}$ |
| $5\mathbf{a} + 3\mathbf{b}$ | $-2\mathbf{a} - 3\mathbf{b}$ |



Simple vector diagrams

3. The diagram shows a trapezium.



$$DC = 2AB$$

Write the following vectors in terms of $\mathbf{a}$ and $\mathbf{b}$.

a) $\overrightarrow{DC}$

$8\mathbf{a}$

b) $\overrightarrow{BD}$

$-5\mathbf{a} - \mathbf{b}$

c) $\overrightarrow{CB}$

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

