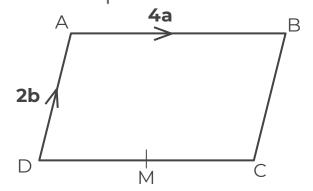
Maths





1. The diagram shows a parallelogram. M is the midpoint of CD.

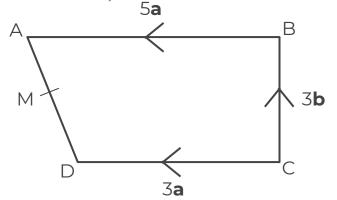


Write the following vectors in terms of **a** and **b**.

- a) \overrightarrow{DM}
- b) \overrightarrow{MC}
- c) \overrightarrow{MB}
- d) \overrightarrow{AM}

2. The diagram shows a trapezium.

M is the midpoint of AD.



Write the following vectors in terms of a and b.

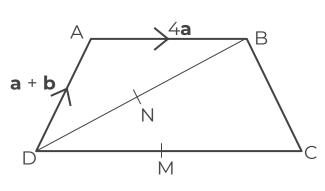
a) \overrightarrow{DA}

b) \overrightarrow{DM}

c) \overrightarrow{AM}



3. The diagram shows a trapezium.



DC = 2AB

M is the midpoint of CD

N is the midpoint of BD

Write the following vectors in terms of a and b.

a)
$$\overrightarrow{DM}$$

b)
$$\overrightarrow{DN}$$

c)
$$\overrightarrow{MN}$$

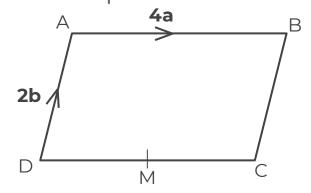
d)
$$\overrightarrow{AM}$$



Answers



1. The diagram shows a parallelogram. M is the midpoint of CD.

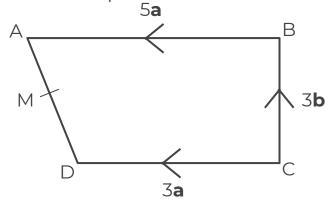


Write the following vectors in terms of a and b.

- a) \overrightarrow{DM}
- b) \overrightarrow{MC}
- c) \overrightarrow{MB} d) \overrightarrow{AM} 2a + 2b 2a - 2b

2. The diagram shows a trapezium.

M is the midpoint of AD.



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

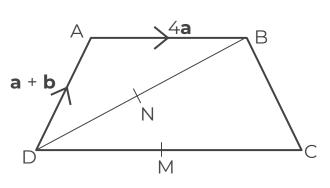
a)
$$\overrightarrow{DA}$$
 2**a** + 3**b**

b)
$$\overrightarrow{DM}_{a+\frac{3}{2}b}$$

c)
$$\overrightarrow{AM}_3$$



3. The diagram shows a trapezium.



$$DC = 2AB$$

M is the midpoint of CD

N is the midpoint of BD

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

a)
$$\overrightarrow{DM}$$
 b) \overrightarrow{DN} c) \overrightarrow{MN} d) \overrightarrow{AM}
4a $\frac{5}{2}$ a + $\frac{1}{2}$ b $\frac{1}{2}$ b - $\frac{3}{2}$ a 3a - b

