



New Maths GCSE: G25 - Vector Geometry

Name:

Date:

M1 - Vectors

Write \vec{CE} in terms of \mathbf{a} and \mathbf{b}

A	a	B	-a
C	b	D	2a+b

1 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{GC} in terms of \mathbf{a} and \mathbf{b}

A	b	B	a+2b
C	-b	D	b-a

2 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{HF} in terms of \mathbf{a} and \mathbf{b}

A	a	B	2a
C	-a	D	-2a

3 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{MB} in terms of \mathbf{a} and \mathbf{b}

A $3\mathbf{a}+\mathbf{b}$
 B $\mathbf{a}+3\mathbf{b}$

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

6 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{BF} in terms of \mathbf{a} and \mathbf{b}

A $\mathbf{a}+2\mathbf{b}$
 B $\mathbf{a}+\mathbf{b}$

C $2\mathbf{a}+\mathbf{b}$
 D $2\mathbf{a}+2\mathbf{b}$

5 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{FL} in terms of \mathbf{a} and \mathbf{b}

A $\mathbf{a}+\mathbf{b}$
 B $3\mathbf{a}+3\mathbf{b}$

C $3\mathbf{a}$
 D \mathbf{c}

4 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{EC} in terms of \mathbf{a} and \mathbf{b}

A $\mathbf{a}+2\mathbf{b}$
 B $2\mathbf{b}-\mathbf{a}$

C $2\mathbf{a}-\mathbf{b}$
 D $2\mathbf{a}+\mathbf{b}$

9 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{US} in terms of \mathbf{a} , \mathbf{b} and \mathbf{c}

A $\mathbf{b+c}$
 B $\frac{1}{2}\mathbf{a+b}$

C $\mathbf{b-c}$
 D $\mathbf{c-b}$

11 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{NI} in terms of \mathbf{a} and \mathbf{b}

A $\mathbf{2b-3a}$
 B $\mathbf{3a+2b}$

C $\mathbf{3a-2b}$
 D $\mathbf{-3a-2b}$

7 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{RT} in terms of \mathbf{a} , \mathbf{b} and \mathbf{c}

A $\mathbf{-a-b-c}$
 B $\mathbf{-a-b+c}$

C $\mathbf{-a-c}$
 D $\mathbf{-a+c}$

13 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

M1 - Vectors

Write \vec{UR} in terms of \mathbf{a} , \mathbf{b} and \mathbf{c}

A $\mathbf{2a}$
 B $\mathbf{a+b-c}$

C $\mathbf{a+b+c}$
 D $\mathbf{a-b-c}$

12 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

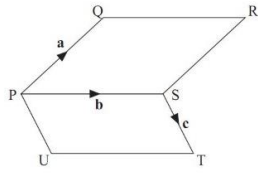
.....

.....

.....

M1 - Vectors

Write \overrightarrow{QT} in terms of \mathbf{a} , \mathbf{b} and \mathbf{c}



A $-\mathbf{a}+\mathbf{b}-\mathbf{c}$

B $-\mathbf{a}+\mathbf{b}+\mathbf{c}$

C $\mathbf{a}-\mathbf{b}+\mathbf{c}$

D $-\mathbf{a}-\mathbf{b}+\mathbf{c}$

14 of 14

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....