

IGCSE EXTENDED MATHS VECTOR EXERCISES + ANSWERS CIE BOARD 2023

Exercise 1:

A vector AB has magnitude 5 and is in the direction of the vector $3i + 4j$. Find the coordinates of A and B .

Exercise 2:

Find the vector that has the same direction as $4i - 3j$ and has magnitude 10.

Exercise 3:

Given vectors $A = 2i + 3j$ and $B = 4i - 5j$, find the magnitude of the vector $A - B$.

Exercise 4:

Given vectors $A = i - 2j$ and $B = 3i + j$, find the angle between A and B .

Exercise 5:

Given vectors $A = 3i - 4j$ and $B = 2i + j$, find a vector C that is perpendicular to both A and B .

Exercise 6:

Given vectors $A = i - 2j$ and $B = 3i + j$, find the projection of A onto B .

Exercise 7:

Given vectors $A = 2i + 3j$ and $B = 4i - 5j$, find the angle between the vectors A and B .

Exercise 8:

Given vectors $A = i + 2j$ and $B = 3i + j$, find the vector that is perpendicular to both A and B and has magnitude 4.

Exercise 9:

Given vectors $A = 2i + 3j$ and $B = 4i - 5j$, find the vector that is the sum of A and B and has magnitude 10.

Exercise 10:

Given vectors $A = i + 2j$ and $B = 3i + j$, find the angle between the vectors A and B .

Gcse Vector Questions And Answers

Minjie Lin



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