

Worksheet: Vector Algebra

CBSE · Class 12 · Mathematics · 3 questions · 12 marks

Name: _____	Date: _____	Score: _____ / 12
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Q1. Find the angle between $\vec{a} = 2\hat{i} - 5\hat{j} + \hat{k}$ and $\vec{b} = \hat{i} + 52\hat{k}$. *[3 marks]*

Q2. Find the area of a triangle with vertices A(1, 2, 3), B(2, 1, 4), C(4, 5, 1). *[4 marks]*

Q3. Show that vectors $\vec{a} = \hat{i} - 25\hat{j} + 3\hat{k}$, $\vec{b} = 2\hat{i} + 354\hat{j} + \hat{k}$, $\vec{c} = \hat{i} - 35\hat{j} + 5\hat{k}$ are coplanar. *[5 marks]*
