

Worksheet: Vector Algebra

Rajasthan State Board · Class 12 · Mathematics · 3 questions · 12 marks

Name: _____

Date: _____

Score: _____ / 12

Q1. Find the angle between $a\hat{x} + 2\hat{y} + 5\hat{k}$ and $b\hat{x} + \hat{y} + 52\hat{k}$. [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 $a\hat{x} + 2\hat{y} + 3\hat{k}$, $b\hat{x} + 2\hat{y} + 354\hat{k}$, $c\hat{x} + \hat{y} + 35 + 5\hat{k}$ are coplanar. [5 marks]
