

MATH HL
TEST – (PAPER 1: WITHOUT GDC)

VECTORS

by Christos Nikolaidis

Name: _____

Date: _____

Marks: ____/50

Grade: _____

Questions

1. *[maximum mark: 7]*

Let $u = \begin{pmatrix} a \\ 2 \\ b+2 \end{pmatrix}$ and $v = \begin{pmatrix} -9 \\ 3 \\ b \end{pmatrix}$

Find the values of scalars a and b in each of the following cases

(a) u is perpendicular to v and $a = b$

[4 marks]

(b) u is parallel to v

[3 marks]

2. *[maximum mark: 5]*

Given any two non-zero vectors a and b , show that

$$|a \times b|^2 = |a|^2 |b|^2 - (a \cdot b)^2.$$

3. *[maximum mark: 6]*

The vector equation of line l is given as $\begin{pmatrix} x \\ y \\ z \end{pmatrix} = \begin{pmatrix} 1 \\ 3 \\ 6 \end{pmatrix} + \lambda \begin{pmatrix} -1 \\ 2 \\ -1 \end{pmatrix}$.

Find the Cartesian equation of the plane containing line l and the point $A(4, -2, 5)$.

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Karin Nielsen-Saines



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